The Totteridge Academy
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Part of United Learning

## Ye Knowledge

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## Animal Farm by George Orwell (1945)

| When? | Summary and Themes/Ideas | Quotations |
| :---: | :---: | :---: |
| $\begin{aligned} & \text { M} \\ & \text { T } \\ & \frac{\omega}{U} \\ & \frac{0}{0} \\ & \frac{0}{U} \\ & \hline \end{aligned}$ | The animals are displeased with how they are treated by Farmer Jones and feel that they are exploited by man. Old Major delivers a speech detailing the oppression. The pigs are established as being of superior intelligence to the other animals. | Chapter 1. Old Major: "Now, comrades, what is the nature of this life of ours? Let us face it: our lives are miserable, laborious, and short." <br> Chapter 1. Old Major: "The life of an animal is misery and slavery: that is the plain truth." <br> Chapter 1. Old Major: "Man is the only real enemy." <br> Chapter 1. Old Major: "That is my message to you comrades: rebellion!" <br> Chapter 1. Narrator: [Boxer was] 'Not of first-rate intelligence.' <br> Chapter 2. Narrator: 'They were met with much stupidity and apathy.' <br> Chapter 2. Narrator: [The Pigs were] 'Generally recognised as being the cleverest.' <br> Chapter 2. Narrator: [Napoleon had] 'a reputation for getting his own way.' <br> Chapter 2. Narrator: 'The others said of squealer that he could turn black into white.' |
|  | The animals vow to take back some element of control over their own lives on the farm and are successful in overthrowing Farmer Jones. The animals successfully rebel and take control of the farm. The animals decide on seven commandments as they establish their utopian vision of Animal Farm. | Chapter 2. Narrator: 'In the past years, Mr Jones [...] had been a capable farmer, but of late he had fallen on evil days.' <br> Chapter 2. Narrator: 'Without bothering to feed the animals. ' <br> Chapter 2. Narrator: 'Yes, it was theirs - everything that they could see was theirs.' <br> Chapter 2. Narrator: [The pigs] 'taught themselves to read'. <br> Chapter 2. Narrator: 'Whatever goes upon two legs is an enemy.' <br> Chapter 2. Narrator: 'All animals are equal.' <br> Chapter 3. Narrator: 'Their efforts were rewarded for the harvest was even bigger success than they hoped. ' <br> Chapter 3. Narrator: 'The pigs were so clever that they could think of a way around every difficulty.' <br> Chapter 3. Squealer: 'Do you know what would happen if we pigs failed in our duty? Jones would come back!" |
| $\begin{aligned} & 0 \\ & \dot{1} \\ & \frac{n}{d} \\ & \frac{N}{0} \\ & 0 \\ & \frac{1}{U} \end{aligned}$ | It quickly becomes clear that the pigs are the ones to lead the rebellion and gain power - often at the expense of the other and less intelligent animals they are able to exploit. Napoleon uses underhand tactics to seize power. | Chapter 4. Narrator: 'Snowball, at the head of them, rushed forward.' <br> Chapter 4. Narrator: [Snowball was] 'In charge of defensive operation" and "gave his orders quickly' <br> Chapter 4. Narrator: 'Animal hero, First class' [...] was conferred there and then on Snowball and Boxer.' <br> Chapter 5. Narrator: 'Snowball wants to build a windmill [...] the animals would only have to work three days weekly.' <br> Chapter 5. Napoleon: 'Nonsense.' <br> Chapter 5. Narrator: 'there was no doubt as to which way the vote would go.' <br> Chapter 5. Narrator 'Napoleon stood up and, casting a peculiar sidelong look at Snowball, uttered a high-pitched whimper.' <br> Chapter 5. Narrator: [The dogs] 'They dashed straight for Snowball.' <br> Chapter 5. Narrator: 'Silent and terrified, the animals crept back into the barn.' <br> Chapter 5. Narrator/Squealer: 'The windmill was, in fact, Napoleon's own creation. He had seemed to oppose the windmill.... This [...] was something called tactics.' |
|  | Division of class and exploitation of less intelligent animals continues. The pigs gain even more power through manipulation | Chapter 6. Pigs: "No animal shall sleep in a bed with sheets." <br> Chapter 6. Napoleon: 'Strictly voluntary.' <br> Chapter 6. Napoleon: 'This traitor has crept here under the cover of night.' <br> Chapter 6. Boxer: "I will work harder" and "Napoleon is always right." |

## Animal Farm by George Orwell (1945)

| When? | Summary and Themes/Ideas | Quotations |
| :---: | :---: | :---: |
|  | The pigs' manipulation increases, as does their exploitation of the other animals who are working harder for little return. | Chapter 7. Narrator: 'Starvation seemed to stare them in the face.' <br> Chapter 7. Narrator: 'Whenever anything went wrong it became usual to attribute it to Snowball.' <br> Chapter 7. Narrator: [about Clover] 'There was no thought of rebellion or disobedience in her mind.' <br> Chapter 7. Squealer: "Napoleon sank his teeth into Jones' leg." |
|  | Napoleon, a symbol of Stalin during the Russian Revolution, is promoted to leader of the farm - the other animals appear unaware of the widening class divide between them and the pigs. | Chapter 8. Narrator: 'some animals remembered - or thought they remembered - that the sixth commandment decreed: 'No Animal shall kill any other animal'.' <br> Chapter 8. Narrator [Napoleon] 'was always referred to in the formal style as 'Our Leader, Comrade Napoleon'.' <br> Chapter 8. Narrator: 'A gun was fired every year on Napoleon's birthday.' <br> Chapter 8. Narrator: [About Napoleon] 'Father of all animals, terror of mankind, protector of the sheepfold, duckling's friend...' |
|  | Boxer prepares for retirement but is then sent away. <br> Towards the end of the novel, the pigs seem to have gone through a transformation as they now take on more qualities of the humans that they so despised at the start. The power of the pigs has been steadily increasing throughout and builds to a climax in the final chapter. | Chapter 9. Boxer: "I will work harder"; he had no voice left." <br> Chapter 9. Clover: "Boxer! Get out! Get out quickly! They're taking you to your death!" <br> Chapter 9. Narrator: 'Boxer was never seen again.' <br> Chapter 9. Narrator: 'It was necessary to elect a President... there was only one candidate.' <br> Chapter 9. Narrator: 'With the songs, the processions, Squealer's list of figures, they were able to forget that their bellies were empty.' <br> Chapter 10. Narrator: 'All animals were equal.' <br> Chapter 10. Animals: "Four legs good, two legs better!" <br> Chapter 10. Narrator: 'A pig walking on its hind legs.' <br> Chapter 10. Narrator: 'Already it was impossible to say which was which.' |


| When? | Summary and Themes/Ideas | Quotations |
| :---: | :---: | :---: |
| $\overleftarrow{\overleftarrow{4}}$ | Scene 1. Exploration is exposed as dangerous. | 1.1. Boatswain: "When the sea is. Hence! What cares these roarers for the name of king?" <br> 1.1. Mariners: "Mercy on us! We split, we split! - Farewell, my wife and children! - Farewell, brother! - We split, we split, we split!" |
|  | Scene 2. Prospero is exposed as a victim of usurpation, for which he seeks revenge. <br> Prospero is presented as a powerful coloniser and slave master. He controls Miranda, uses manipulation to control Ariel and has enslaved Caliban, presented here as a savage but one for whom we have some sympathy. <br> Control is further established by Prospero as he manipulates the relationship between Ferdinand and Miranda. | 1.2. Miranda (ło Prospero): "O, I have suffered With those that I saw suffer." <br> 1.2. Prospero (to Miranda): "Thy father was the Duke of Milan and a prince of power." <br> 1.2. Prospero (to Miranda): "By foul play, as thou sayst, were we heaved thence." <br> 1.2. Prospero (to Miranda): "By being so retired, o'erprized all popular rate, in my false brother awaked an evil nature." <br> 1.2. Prospero (to Miranda): "There they hoist us to cry to th' sea that roared to us." <br> 1.2. Ariel (to Prospero): "All hail, great master! Grave sir, hail!" <br> 1.2. Prospero (to Ariel): "Hast thou, spirit, performed to point the tempest that I bade thee?" <br> 1.2. Ariel (to Prospero): "Ferdinand [...] was the first man that leaped; cried 'hell is empty, and all the devils are here'." <br> 1.2. Prospero (to Ariel): "Ariel, thy charge exactly is performed. But there's more work." <br> 1.2. Prospero (to Ariel): "I will rend an oak and peg thee in his knotty entrails till thou hast howled away twelve winters." <br> 1.2. Prospero (to Caliban): "Thou poisonous slave, got by the devil himself upon thy wicked dam, come forth!" <br> 1.2. Caliban (to Prospero and Miranda): "You taught me language, and my profit on't Is I know how to curse. The red plague rid you for learning me your language!" <br> 1.2. Caliban (to Prospero and Miranda): "Hast thou not dropped from heaven?" <br> 1.2. Caliban (to Prospero): "This island's mine, by Sycorax my mother, which thou takest from me." <br> 1.2. Caliban (to Prospero): "For I am all the subjects that you have, Which first was mine own king." <br> 1.2. Prospero (to Caliban): "If you neglect my orders or do them grudgingly, I'll double you up with pains and cramps." <br> 1.2. Prospero (to Miranda): "I find my zenith doth depend upon a most auspicious star." <br> 1.2. Prospero (to Ariel): "Hast thou, spirit, performed to point the tempest that I bade thee?" <br> 1.2. Miranda: "I might call him a thing divine, for nothing natural I ever saw so noble." <br> 1.2. Prospero (aside): "It goes on, I see, as my soul prompts it." |

## The Tempest by William Shakespeare (1611)

| When? | Summary and Themes/Ideas | Quotations |
| :---: | :---: | :---: |
| $\stackrel{N}{N}$ | Scene 1. The usurping 'men of sin' and the 'noble Neapolitan' Gonzalo arrive on the island. Antonio tempts Sebastian to usurp his brother, as he did to Prospero. | 2.1. Gonzalo: "Here is everything advantageous to life." <br> 2.1. Gonzalo: "In my kingdom I'd do everything differently from the way it's usually done." <br> 2.1. Antonio (to Sebastian): "My strong imagination sees a crown dropping upon thy head." <br> 2.1. Antonio (to Sebastian): "Twenty consciences, that stand 'twixt me and Milan, candied be they and melt ere they molest!" <br> 2.1. Sebastian (to Antonio): "As thou got'st Milan, I'll come by Naples." <br> 2.1. Ariel (to Gonzalo): "My master through his art foresees the danger that you, his friend, are, and sends me forth." <br> 2.1. Ariel (to Gonzalo): "If of life you keep a care, shake off slumber and beware." |
|  | Scene 2. Caliban, Stephano and Trinculo embark on a futile, comedic plot to usurp Prospero, exploring themes of colonisation. | 2.2. Trinculo: "Misery acquaints a man with strange bedfellows." <br> 2.2. Stephano: "Do you put tricks upon's with savages and men of Ind, ha?" <br> 2.2. Caliban (aside): "That's a brave god and bears celestial liquor. I will kneel to him." <br> 2.2. Caliban (to Stephano): "I'll show thee every fertile inch o' th' island and I will kiss thy foot." <br> 2.2. Caliban: "Freedom, high-day, freedom." |
| $\stackrel{m}{U}$ | Scene 1. The relationship between Miranda and Ferdinand develops, thanks to Prospero's manipulation. | 3.1. Ferdinand (to Miranda): "The mistress which I serve quickens what's dead and makes my labors pleasures." <br> 3.1. Ferdinand (ło Miranda): "But you, O you, so perfect and so peerless." <br> 3.1. Ferdinand (to Miranda): "My heart fly to your service." <br> 3.1. Miranda (to Ferdinand): "I am your wife, if you will marry me: If not, I'll die your maid: to be your fellow. You may deny me, but I'll be your servant, whether you will or no." |
|  | Scene 2. Power is exposed as corruptive through the comedic antics of Caliban, Stephano and Trinculo. <br> Caliban is portrayed as a victim of colonisation and slavery. | 3.2. Stephano (to Trinculo): "If you prove a mutineer, the next tree." <br> 3.2. Caliban (to Stephano): "If thy greatness will revenge it on him." <br> 3.2. Caliban: "With a log batter his skull; or paunch him with a stake." <br> 3.2. Caliban: "Let me lick thy shoe." <br> 3.2. Caliban (to Stephano): "I thank my noble lord." <br> 3.2. Caliban (aside): "I am subject to a tyrant, a sorcerer, that by his cunning hath cheated me of the island." |
|  | Scene 3. Prospero utilises his power over Ariel to exert terrifying revenge for his usurpation. Alonso, Antonio and Sebastian are now under his control. | 3.3. Ariel: "You fools, I and my fellows are ministers of fate." <br> 3.3. Ariel: "I have made you mad...men hang and drown their proper selves." <br> 3.3. Ariel: "You three from Milan did supplant good Prospero." <br> 3.3. Ariel: "Thee of thy son, Alonso, they have bereft." <br> 3.3. Prospero (aside): "They now are in my power and in these fits I leave them." <br> 3.3. Alonso: "With him there lie mudded." <br> 3.3. Gonzalo: "Their great guilt, like poison." |


| When? | Summary and Themes/Ideas | Quotations |
| :---: | :---: | :---: |
| $\frac{ \pm}{U}$ | Scene 1. Prospero offers Miranda to Ferdinand, reinforcing patriarchal views. Order is restored as Prospero quells the plot on his life, leaving him in total control. | 4.1. Prospero (to Ferdinand): "I ratify this my rich gift." <br> 4.1. Prospero (to Ferdinand): "But if thou dost break her virgin knot... discord shall bestrew the union of your bed." <br> 4.1. Prospero (to Ariel): "A devil, a born devil on whose nature nurture can never stick." <br> 4.1. Caliban: "If he awake, from toe to crown he'll fill our skins with pinches." <br> 4.1. Prospero (to Ariel): "At this hour lie at my mercy all mine enemies." <br> 4.1. Prospero (monologue): "We are such stuff as dreams are made on: and our little life Is rounded with a sleep." |
| $\frac{n}{4}$ | Scene 1. Prospero is humanised by Ariel and realises that forgiveness is more virłuous than revenge. Prospero's power as Duke is restored and he decides to give up his magic powers and return to Milan to live out his days. | 5.1. Ariel (to Prospero): "If you now beheld them, your affections would become tender." <br> 5.1. Prospero (to Ariel): "The rarer action is in virtue than in vengeance." <br> 5.1. Prospero: "I'll drown my books." <br> 5.1. Prospero: "Require my dukedom of thee, which perforce, I know, thou must restore." <br> 5.1. Prospero: "I do forgive thee, unnatural though thou art." <br> 5.1. Prospero (to Ariel): "I shall miss thee, but yet thou shalt have freedom." <br> 5.1. Ariel (to Prospero): "Merrily, merrily, shall I live now Under the blossom that hangs on the bough." <br> 5.1. Trinculo: "If these be true spies which I wear in my head, here's a goodly sight." <br> 5.1. Prospero: "And in the morn I'll bring you to your ship and so to Naples." |
|  | Prospero seeks forgiveness from the audience, realising his earlier bitterness was wrong. | Prospero: "Release me from my bands with the help of your good hands." <br> Prospero: "As you from crimes would pardoned be, Let your indulgence set me free." |

## Sherlock Holmes by Sir Arthur Conan Doyle (1892)

| When? | Summary and Themes/ldeas | Quotations |
| :---: | :---: | :---: |
| The Red Headed League | Sherlock Holmes is visited by Jabez Wilson, who tells him of the strange story of The Red Headed League. Mr Wilson has been offered lots of money to do a seemingly pointless job. <br> Holmes uses powers of deduction and observation to establish that it is a hoax. Holmes becomes introspective to solve the case and work out that it is a front for a serious robbery. <br> Watson acknowledges Sherlock's superior ability to use reason and rationality, as he catches the robbers red handed. Sherlock describes how these cases help him escape the boring routines of everyday life. | Sherlock: "for strange effects and extraordinary combinations we must go to life itself." <br> Sherlock: "I shall keep on piling fact upon fact on you until your reason breaks down under them and acknowledges me to be right." <br> Watson (narrator): 'Sherlock Holmes quick eye took in my occupation, and he shook his head with a smile.' <br> Sherlock: "It is quite a three pipe problem." <br> Sherlock: "It is introspective, and I want to introspect." <br> Watson (narrator): 'In his singular character the dual nature alternately asserted itself and his extreme exactness and astuteness represented... the reaction against the poetic and contemplative mood which occasionally predominated in him.' <br> Watson (narrator): 'Then it was that the lust of the chase would suddenly come upon him.' <br> Watson (narrator): 'His brilliant reasoning power would rise to the level of intuition.' <br> Watson (narrator): 'I was always oppressed with a sense of my own stupidity in my dealings with Sherlock Holmes.' <br> Sherlock: "My life is spent in one long effort to escape from the common places of existence. These little problems help me to do so." |
| D!யəчоя U! IDPиDગS $\forall$ | The character of Irene Adler is introduced as subverting female Victorian stereotypes. Sherlock Holmes meets the King of Bohemia who tells him that he is due to be married and askes Holmes to help him retrieve a scandalous photograph from Irene Adler. Holmes is reinforced as the embodiment of knowledge and observation, but also as an eccentric, cold character who lacks normal human emotion and empathy. Holmes comes up with a plan to get Irene Adler to reveal the location of the photograph by pretending that her house is on fire. Adler falls for the trick but later realises she has been duped and flees. | Watson (narrator): 'To Sherlock Holmes she is always the woman.' <br> Watson (narrator): 'In his eyes she eclipses and predominates the whole of her sex...' <br> Watson (narrator): 'All emotions, and that one (love) particularly, were abhorrent to his cold, precise but admirably balanced mind.' <br> Watson (narrator): 'He was... the most perfect reasoning and observing machine the world has seen.' <br> Watson (narrator): 'Grit in a sensitive instrument, or a crack in one of his high-power lenses, would not be more disturbing than a strong emotion in a nature such as his.' <br> Watson (narrator): 'Holmes... loathed every form of society with his whole Bohemian soul.' <br> Watson (narrator): 'He was pacing the room swiftly, eagerly, with his head sunk upon his chest and his hands clasped behind him... He was at work again.' <br> Watson (narrator): 'I could not help laughing at the ease with which he explained his process of deduction.' <br> Sherlock: "You see, but you do not observe." <br> Sherlock: "It is a capital mistake to theorise before you have data. Invariably one begins to twist facts to suit theories instead of theories to suit facts." <br> Watson (narrator): 'There was something in his masterly grip of a situation, and his keen, incisive reasoning, which made it a pleasure to study his system of work.' |

## Sherlock Holmes by Sir Arthur Conan Doyle (1892)

| When? | Summary and Themes/ldeas | Quotations |
| :---: | :---: | :---: |
|  | Both Holmes and Watson underestimated Irene Adler because she is a woman, reinforcing their patriarchal and stereotypical views. In the end, she wins their respect due to the way she outsmarts them and the King of Bohemia. Her intelligence subverts Victorian stereotypes of women. | Sherlock: (about Irene Adler) "She is the daintiest thing under a bonnet on this planet." <br> Watson (narrator): 'She stood at the top with her superb figure outlined against the lights of the hall.' <br> Watson (narrator): 'I never felt more ashamed in my life than when I saw the beautiful creature against whom I was conspiring.' <br> Sherlock: "When a woman thinks that her house is on fire, her instinct is at once to rush to the thing that she values most. It is a perfectly overpowering impulse." <br> Sherlock: "From what I have seen of the lady she seems indeed to be on a very different level to Your Majesty." <br> Watson (narrator): 'And that was how the best plans of Mr. Sherlock Holmes were beaten by a woman's wit.' <br> Watson (narrator): 'He used to make merry over the cleverness of women but I have not heard him do it of late.' |
|  | Mary Sutherland is introduced as a stereotypical Victorian representation of women - unintelligent, emotional, obsessed with her appearance, easily outsmarted and not to be taken seriously. She is being manipulated by her strange husband, Mr Hosmer Angel. <br> Mary is the opposite of Irene Adler, who subverts these expectations. Her new husband wears a mask, has a strange appearance and she doesn' $\dagger$ really know anything about him. Holmes is instantly suspicious. Holmes' eccentricity is further revealed as he makes deductions about the case in a relaxed manner. Holmes works out that Hosmer Angel is not all he appears to be, and is in fact Mary Sutherland's own stepfather, James Windibanks, who is pretending to be Hosmer Angel so that she never marries. While she remains at home, the family have access to all of her money. She has been tricked. Despite his eccentric behaviour, Holmes decency is made clear in his final treatment of 'Hosmer Angel'. | Sherlock: "life is infinitely stranger than anything which the mind of man could invent." <br> Sherlock: "Depend upon it. There is nothing so unnatural as the commonplace." <br> Sherlock: "it is my business to know things. Perhaps I have trained myself to see what others overlook. If not, why should you come to consult me?" <br> Watson (narrator): 'on the pavement opposite there stood a large woman with a heavy fur boa round her neck, and a large curling red feather in a broad-brimmed hat which was tilted in a coquettish Duchess of Devonshire fashion over her ear. From under this great panoply she peeped up in a nervous, hesitating fashion at our windows, while her body oscillated backward and forward, and her fingers fidgeted with her glove buttons.' <br> Sherlock: "Oscillation upon the pavement always means an affaire de Coeur." <br> Watson (narrator): 'the lady herself loomed behind his small black figure like a full-sailed merchant-man behind a tiny pilot boat.' <br> Watson (narrator): 'a startled look came over the somewhat vacuous face of Miss Mary Sutherland' <br> Watson (narrator): 'I had expected to see Sherlock Holmes impatient under this rambling and inconsequential narrative, but, on the contrary, he had listened with the greatest concentration of attention'. <br> Watson (narrator): 'A flush stole over Miss Sutherland's face, and she picked nervously at the fringe of her jacket.' <br> Watson (narrator): 'For all the preposterous hat and the vacuous face, there was something noble in the simple faith of our visitor which compelled our respect'. <br> Watson (narrator): 'he took down from the rack the old and oily clay pipe, which was to him as a counsellor, and, having lit it, he leaned back in his chair, with the thick blue cloud-wreaths spinning up from him, and a look of infinite languor in his face.' <br> Sherlock: "It has long been an axiom of mine that the little things are infinitely the most important." <br> Sherlock: "Never trust to general impressions, my boy, but concentrate yourself upon details." <br> Sherlock: "The law cannot, as you say, touch you," said Holmes, unlocking and throwing open the door, "yet there never was a man who deserved punishment more." |

Mathematics
1 of 5

Indices, Factions \& Significant Figures

| Indices |  |  |
| :---: | :---: | :---: |
| Bases are the same | Multiplying add the <br> powers, dividing <br> subtract | $w^{3} \times w^{4}=w^{3+4}$ <br> $=w^{7}$ |
| Base to the power, <br> all to the power | Multiply the indices | $w^{3} \div w^{4}=w^{3-4}$ <br> $=w^{?}$ |
| Base to the power <br> of zero | Equals 1 | $\left(w^{3}\right)^{2}=w^{6}$ |


| Rounding |  |  |
| :---: | :---: | :---: |
| The first significant figure | Can never be zero | $\begin{aligned} & \text { Round to } 2 \mathrm{st} \mathrm{f}_{\mathrm{frd}} \\ & 0.00655^{4} \mid 3 \\ & 0.0065 \end{aligned}$ |
| Estimation | 1SF | $\begin{aligned} & \text { Estimate } \\ & \frac{12.7+4.2^{2}}{0.53} \end{aligned} \frac{\text { Estimate }}{0.53} \underset{x_{?}}{0.5+4.2^{2}} \stackrel{26}{x ?}_{5}$ |


| Prime Factorisation |  |  |
| :---: | :---: | :---: |
| Prime numbers | Have exactly two factors | $\underset{\substack{\text { Factocs of } 2: \\ 1,2}}{\substack{\text { Farturs of } 6: \\ 1,6 \\ 2,3}}$ |
| Factors of a number | Go into a number |  |
| Multiples of a number | Are the times tables |  |
| Prime factor form | Tree thing tree thing | Express 90 as a product of prime factors: |
| Product of its primes | Product means times,2,3,5,7 don' $\dagger$ forget your primes |  |
| HCF or LCM of large numbers | Use a venn diagram |  |
| HCF | Multiply the overlap (Common bases, lowest powers) |  |
| LCM | Multiply them all (All bases, highest powers) | $\left(\begin{array}{ll} 280=2^{3} \times 5 \times 7 & \text { HCF }=2^{2} \times 5 \\ 900=2^{2} \times 3^{3} \times 5^{2} & \text { LCM }=2^{3} \times 3^{2} \times 5^{2} \times 7 \end{array}\right)$ |


| Fractions |  |  |
| :---: | :---: | :---: |
| Always make your life simple Cancel anything on the top | Simplify first <br> With anything from the bottom | $\frac{210}{21} \times \frac{4^{2}}{255}=\frac{4}{15}$ |
| Multiplying fractions | Top $\times$ top bottom $\times$ bottom |  |
| Dividing fractions | Times by the reciprocal | $\frac{3}{8} \div \frac{7}{11}=\frac{3}{8} \times \frac{11}{7}=\frac{33}{56}$ |
| Adding fractions | Find the LCM | $\begin{aligned} & \frac{7}{12}+\frac{2}{9} \\ & \times 3)_{36} 2_{x 4} \\ = & \frac{21}{36}+\frac{8}{36} \\ = & \frac{29}{36} . \end{aligned}$ <br> $\begin{array}{ll}12 & 9 \\ 24 & 18\end{array}$ |
| Comparing fractions | Find the LCM | which is bigger $\begin{aligned} & \frac{4}{5} \text { or } \frac{5}{6} ? \\ & >\operatorname{lm}_{30} \\ & \frac{24}{30} \quad \frac{25}{30} \text { Bigger } \end{aligned}$ |


| Solving Linear Equations |  |  |
| :---: | :---: | :---: |
| Successful elimination | With an inverse operation | Solve $\frac{1 p x}{10}=\frac{5}{10}$ |
| If you do it on 1 side | Do it to the other to keep the balance |  |
| $x$ on both sides | Get rid of the smallest ' $x$ ' | $\begin{aligned} & \text { Solve } \\ & \begin{array}{l} 11-3 x=2 x+1 \\ +3 x+3 x \end{array} \end{aligned}$ |
| $x$ on both sides and brackets | Expand the bracket first | Solve $\begin{aligned} & 3(x+4)=5(2 x-1) \\ & 3 x+12=10 x-5 \end{aligned}$ |


| Forming and Solving Linear Equations |  |  |
| :---: | :---: | :---: |
| Perimeter is | The distance around a 2D shape | Form an expression for the perimeter of this shape $\begin{aligned} & P=4 x+3+7+4 x+3+7 \\ & P=8 x+20 \\ & \text { Now Solve!. } \end{aligned}$ |
| Area of a rectangle | Length $\times$ Width OR Base $\times$ Height | The area of this shape is $77 \mathrm{~cm}^{2}$. Work out the value of $x$ $\begin{aligned} A & =l \times w \\ 77 & =7(4 x+3) \end{aligned}$ <br> Now Solve! |
| Angles in a triangle | Add up to $180^{\circ}$ | Form and solve an equation to find the value of ' $a$ ' $\begin{gathered} a+2 a+90=180 \\ 3 a+90=180 \\ \text { Now Solve! } \end{gathered}$ |


| Units of Measurement |  |  |
| :---: | :---: | :---: |
| Converting units | Box method Bigger unit equals '1' |  |
| Converting units of area | Draw a rectangle Convert the lengths |  |


| Ratio and Proportion |  |  |
| :---: | :---: | :---: |
| Connection between two things | Box method | Jay travels 15 miles in 35 minutesk How much will he travel in 1 hour? <br> 5 is the HCF of 35 and 60 |
| What do we look for? | Up, down, side to side |  |
| And if that fails? | Middle man, think HCF |  |
| Converting units | Box method |  |
| Currency questions | Box method |  |
| Recipe questions | Box method |  |
| Value for money | Box method with same amounts | To make juice I mix 1 part squash with 4 parts water. How much squash do I need for 2L of juice? |
| Ratio questions | Box method with a total | To make juice I mix 1 part squash/< with 4 parts water. How much squash do I need for 2L of juice? <br> Answer: 400 ml |
|  |  | Write the ratio 5:4 in the form $1: n$ <br> Answer: 1: $\frac{4}{5}$ |

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Angles, Circles and Percentages

| Angles in $a$ |
| :---: | :---: | :---: | :---: | :---: | :---: |
| triangle |$\quad$ Add up to $180^{\circ}$ Angles


| Circles |  |  |
| :---: | :---: | :---: |
| Circumference of a circle | $\pi \times \mathrm{d}$ | $\because C=\pi_{d}$ |
| Area of a circle | $\pi \times$ radius squared | (1) $A=\pi r^{2}$ |
| Arc length is | Fraction of the circle times $\pi \times \mathrm{d}$ | $\text { Arclenght }=\frac{200}{360} \times \pi d$ |
| Area of a sector is | Fraction of the circle times $\pi r^{2}$ | $\begin{aligned} & \text { Area of }=\frac{200}{360} \times \pi r^{2} \\ & \text { Sector } \end{aligned}$ |


| Fractions, Decimals and Percentages |  |  |
| :---: | :---: | :---: |
| \% to fraction | Write it out of 100 | Write $48 \%$ as a fraction in simplest form $48 \%=\frac{48}{100}=-\begin{gathered} \text { Always } \\ \text { to simplify } \end{gathered}$ |
| Decimals to fractions | First to \% | Convert 0.6 to a fraction in simplest form |
| Fractions to decimals | Division using bus stop | $\begin{aligned} & \text { Conver }\left(\frac{5}{8}\right. \text { to a percentage } \\ & 5 \div 8=\quad \frac{8.625}{5.50^{\circ} 0^{\circ} 0}=62.5 \% \end{aligned}$ |
| Fractions to \% <br> And if that fails? | Equivalent fractions Make the denominator 100 <br> Convert to decimal first | Write $\frac{3}{20}$ as a percentage $\frac{3}{20}=\frac{2}{100}=-\%$ |

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Area, Averages and Data

## Area

| Area of a trapezium | Add up the parallel sides. <br> Times the distance between them. Halve the answer you get. <br> That's the area of a trapezium. | $\begin{aligned} & 3+7=10 \\ & 10 \times 3=30 \\ & 30 \div 2=15 \mathrm{~cm}^{2} \end{aligned}$ |
| :---: | :---: | :---: |
| Shaded area | Big area minus small area |  |
| Compound area | Split into separate shapes and add |  |



| Averages and spread |  |  |
| :---: | :---: | :---: |
| Mean | Fair | Calculate the mean for the following $8+1+1+3+2=15$ data set $8,1,1,3,2$ $\qquad$ $15 \div 5=3$ |
| Median | Middle (put the numbers in order) | Calculate the median for the following data set $8,1,1,3,2$ |
| Mode | Most | Calculate the mode for the following data set $8,1,1,3,2$ |
| Range | Spread (largest - smallest) | Calculate the range for the following data set $8,1,1,3,2$ $\begin{aligned} & 1,2,2,3,8 \\ & 8-1=7 \\ & \text { Ravese7 } \end{aligned}$ |

## Unit 1: Light and Space

| 1 | What is a wave? | A transfer of energy |
| :---: | :---: | :---: |
| 2 | What are the two types of wave? | Longitudinal and transverse |
| 3 | In what direction are the vibrations in a longitudinal wave? | The same direction the wave is travelling |
| 4 | In what direction are the vibrations in a transverse wave? | Perpendicular to the direction the wave is travelling |
| 5 | What is a light source? | An object that releases light waves |
| 6 | What type of wave is light? | Transverse |
| 7 | What is a ray diagram? | A way of drawing how light travels |
| 8 | In a ray diagram, how must light be drawn? | Straight line, arrow in the middle, no gaps |
| 9 | What four things can occur when light meets an object? | Transmission, reflection, refraction, absorption |
| 10 | What occurs in transmission? | The wave goes through the object |
| 11 | What occurs in reflection? | The wave changes direction away from the object |
| 12 | What occurs in refraction? | The wave passes through into the object but changes direction |
| 13 | What is absorption? | The wave is stopped by the object and the objects heats up |
| 14 | In what process do plants absorb light? | Photosynthesis |
| 15 | Give a word equation for photosynthesis | Carbon dioxide + water > glucose + oxygen |
| 16 | What is a transparent object? | One that allows light to be transmitted through |
| 17 | What is an opaque object? | One which does not allow light to be transmitted through it; it absorbs the light |
| 18 | What is a translucent object? | One which absorbs some light, and scatters the rest as it is transmitted through the material |
| 19 | What is a "normal"? | A line drawn at right angles to a surface |
| 20 | What is the incident ray? | The ray of light approaching a surface |
| 21 | What is the reflected ray? | The ray of light reflected away from a surface |

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Unit 1: Light and Space

| 22 | What is a medium? | The space or material which a light wave is travelling in |
| :---: | :---: | :---: |
| 23 | Why does refraction occur? | Light travels at different speeds in different mediums |
| 24 | How does the density of the medium affect the speed of light? | The denser the medium, the slower the light |
| 25 | Name the seven colours in visible light | Red, orange, yellow, green, blue, indigo, violet |
| 26 | What is a colour filter? | An object that absorbs some colours and transmits others |
| 27 | What gives objects their colour? | They absorb some colours and reflect others; we only see the reflected colours |
| 28 | What is a star? | A large sphere of very hot gas in space that emits light |
| 29 | What is the Sun? | The star nearest the Earth |
| 30 | What is an orbit? | The path an object takes around another object in space |
| 31 | What is a planet? | An object that orbits a star |
| 32 | What is the solar system? | A collection of planets and other objects orbiting the Sun |
| 33 | What is a galaxy? | A group of billions of stars |
| 34 | Name the planets in our solar system in order of distance from the Sun | Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus, Neptune |
| 35 | What is mass? | The amount of material contained in an object |
| 36 | What is the symbol for mass? | m |
| 37 | What is the unit and unit symbol for mass? | Kilograms, kg |
| 38 | What is a force? | A push, pull or twist |
| 39 | What is a field? | A field allows forces to act without physical contact |
| 40 | What is a gravitational field? | The field around an object that pulls other objects towards it |
| 41 | What is gravitational field strength? | The force experienced by 1 kg of mass in that field |

Unit 1: Light and Space

| 42 | What is the gravitational field strength on Earth? | about 9.8N/kg |
| :---: | :---: | :---: |
| 43 | What is the unit and unit symbol for gravitational field strength? | Newtons per kilogram, N/kg |
| 44 | What is weight? | The force exerted on an object by a gravitational field |
| 45 | What is the symbol for weight? | W |
| 46 | What is the unit and unit symbol for weight? | Newtons, N |
| 47 | What is the formula that relates weight, mass and gravitational field strength? | $W=m \times g$ |
| 48 | What is the Earth's axis? | An imaginary straight line from the North pole to the South about which the Earth rotates |
| 49 | What causes day and night? | The rotation of the Earth on its axis |
| 50 | What is the time period of one rotation of the Earth on its axis? | 24 hours |
| 51 | What causes seasons? | The Earth's tilted axis and its rotation around the Sun |
| 52 | What is the time period of one orbit of the Earth around the Sun? | 365 days |
| 53 | What is the equator? | An imaginary line drawn around the middle of the Earth |
| 54 | What two things are affected by the seasons? | The temperature and length of the day |
| 55 | If the North pole is tilted towards the Sun, what affect will this have on the Northern hemisphere? | Temperature is higher, days are longer |
| 56 | When it is Winter in the Northern hemisphere, what season is it in the Southern hemisphere? | Summer |
| 57 | If the North pole is tilted towards the Sun, what affect will this have on the Southern hemisphere? | Temperature is lower, days are shorter |
| 58 | Why is it hotter in the hemisphere which is pointed to the Sun? | The sunlight is more concentrated |
| 59 | What is a light year? | The distance travelled by light in a year |


| 1 | What are atoms made of? | Protons, neutrons and electrons |
| :---: | :---: | :---: |
| 2 | What is found in the nucleus of an atom? | Protons and neutrons |
| 3 | Where are the electrons in an atom? | Orbiting the nucleus in shells |
| 4 | What is between the electrons and the nucleus? | Empty space |
| 5 | What is an element? | A substance made of one type of atom only |
| 6 | What is a compound? | Two or more different atoms chemically bonded together |
| 7 | What is a mixture? | When different substances are together but not chemically bonded |
| 8 | What is the periodic table? | An organised table showing the different elements |
| 9 | Who first prepared the modern periodic table? | Mendeleev |
| 10 | Why did Mendeleev put some elements together in groups? | They had similar properties |
| 11 | Why did Mendeleev leave gaps in his periodic table? | For undiscovered elements |
| 12 | What is a group in the periodic table? | The vertical columns |
| 13 | What is a period in the periodic table? | The horizontal rows |
| 14 | What does the group an element is in tell you about its electrons? | How many it has in the outer shell |
| 15 | What does the period an element is in tell you about its electrons? | How many shells it has |
| 16 | What is charge? | A property of particles that can be positive or negative. Other particles have no charge (neutral) |
| 17 | What happens when the same charges come into contact? | They repel |
| 18 | What happens when opposite charges come into contact? | They attract |
| 19 | Name the three particles that make up atoms (subatomic particles) | Protons, neutrons, electrons |
| 20 | State the relative charges of the subatomic particles | Protons: +1 , neutrons: 0 , electrons: -1 |
| 21 | What is the atomic number of an atom? | The number of protons in an atom |
| 22 | What is the mass number of an atom? | The number of protons + the number of neutrons in an atom |
| 23 | Why is the number of electrons in an atom equal to the number of protons? | As their charges cancel out |
| 24 | How do you calculate the number of neutrons in an atom? | Mass number - atomic number |
| 25 | How many electrons can go in the first shell? | 2 |
| 26 | How many electrons can go in the second and third shells? | 8 |

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Unit 2: Periodic Table

| 27 | What is a property? | A characteristic of something |
| :---: | :---: | :---: |
| 28 | What are the two main types of element? | Metals and non-metals |
| 29 | Give three typical properties of metals | Conduct electricity, conduct heat, malleable, ductile, high melting/boiling points, strong |
| 30 | Give two typical properties of non-metals | Electrical insulators, heat insulators, low melting/boiling points, weak, brittle |
| 31 | What does electrical conductor mean? | Allows electricity to flow through it |
| 32 | What does electrical insulator mean? | Does not allow electricity to flow through it |
| 33 | What does heat conductor mean? | Allows heat to flow through it |
| 34 | What does heat insulator mean? | Does not allow heat to flow through it |
| 35 | What does malleable mean? | Easy to bend |
| 36 | What does brittle mean? | Shatters easily |
| 37 | What does strong mean? | Can hold a lot of weight |
| 38 | What does weak mean? | Can't hold a lot of weight |
| 39 | What does ductile mean? | Easy to stretch |
| 40 | If something has a high melting/boiling point, what state is it at room temperature? | Solid |
| 41 | If something has a low melting/boiling point, what state is it at room temperature? | Liquid or gas |
| 42 | What does hard mean? | Difficult to scratch |
| 43 | What does soft mean? | Easy to scratch |
| 44 | What does reactive mean? | Reacts easily with other substances |
| 45 | What does unreactive mean? | Does not react easily with other substances |
| 46 | What does magnetic mean? | It is attracted to magnets |
| 47 | In which group are the alkali metals found? | 1 |
| 48 | What is easier to separate, a mixture or a compound? | A mixture |
| 49 | When different substances are mixed together, what happens to their properties? | They are retained (they do not change) |
| 50 | When different substances are chemically bonded together, what happens to their properties? | They change |
| 51 | What are reactants? | The substances you start with in a reaction |

Unit 2: Periodic Table

| 52 | What are products? | The substances you end up with in a reaction |
| :---: | :---: | :---: |
| 53 | When naming a compound with a metal and a non-metal, which comes first in the name? | The metal |
| 54 | If a compound has a metal and a non-metal, what is its suffix? | -ide |
| 55 | What is a chemical formula? | A way of showing which atoms are in a substance |
| 56 | What is the conservation of mass? | That atoms cannot be created or destroyed |
| 57 | In a chemical reaction, what happens to the atoms? | They are rearranged |
| 58 | In terms of chemical bonds, what happens in a chemical reaction? | Some are broken and others are made |
| 59 | How could you tell if a chemical reaction has taken place? | Temperature change, colour change, gas formed, solid formed |
| 60 | If mass appears to be lost in a reaction, what has happened? | A gas has been produced which escapes |
| 61 | If mass appears to be gained in a reaction, what has happened? | Atoms of a gas from the air have been added |
| 62 | When magnesium reacts with oxygen, why does the mass increase? | Atoms of oxygen from the air have been added |
| 63 | When magnesium reacts with acid, why does the mass decrease? | A gas is produced which escapes |
| 64 | What is a physical change? | A change of state or dissolving |
| 65 | Why is a change of state not a chemical change? | No new substances are made |
| 66 | What name is given to the group 1 elements? | Alkali metals |
| 67 | Why are alkali metals called alkali metals? | They are metals that react with water to form alkalis |
| 68 | Why are alkali metals stored in oil? | To stop them reacting with oxygen |
| 69 | Give four properties of alkali metals | Very reactive, low density, soft, relatively low melting/boiling point |
| 70 | How does the reactivity of alkali metals change down the group? | Increases |
| 71 | How does the melting and boiling point of alkali metals change down the group? | Decreases |
| 72 | What are the products of a reaction between an alkali metal and water? | Form a hydroxide and hydrogen |
| 73 | What name is given to the group 7 elements? | The halogens |
| 74 | Give four properties of the halogens | Toxic, form coloured vapours, low melting/boiling point, reactive |
| 75 | How does the reactivity of halogens change down the group? | Decreases |
| 76 | How does the melting/boiling point of halogens change down the group? | Increases |

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Unit 3: 8BD Digestion

| 1 | What is digestion? | The breakdown of food into small molecules |
| :---: | :---: | :---: |
| 2 | Name 4 food groups | Carbohydrates, proteins, fats, vitamins and minerals |
| 3 | Give an example of a food containing carbohydrates | Potato, rice, bread, pasta |
| 4 | Give an example of a food containing protein | Meat, fish, eggs, milk, cheese |
| 5 | Give an example of a food containing fats | Meat, milk, yogurt, oil |
| 6 | Give an example of a food containing vitamins and minerals | Fruit, vegetables |
| 7 | What are carbohydrates broken down into? | Simple sugars |
| 8 | Give an example of a simple sugar | Glucose (sucrose, fructose) |
| 9 | What is glucose used for? | Respiration |
| 10 | What are proteins broken down into? | Amino acids |
| 11 | What are amino acids used for? | Growth and repair |
| 12 | What are fats broken down into? | Fatty acids and glycerol |
| 13 | What are fatty acids and glycerol used for? | Energy storage |
| 14 | What are vitamins and minerals used for? | Contribute to all aspects of health |
| 15 | What happens to the small molecules at the end of digestion? | They are absorbed into the blood |
| 16 | Name the organs in the digestive system in the order food passes through them | Mouth, oesophagus, stomach, small intestine, large intestine, rectum, anus |
| 17 | Where is food digested? | The mouth, the stomach and the small intestine |
| 18 | What happens in the small intestine? | Digested food is absorbed into the blood |
| 19 | What happens in the large intestine? | Excess water is absorbed (from undigested food) |

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Unit 3: 8BD Digestion

| 20 | What does the liver do? | Produce bile |
| :---: | :---: | :---: |
| 21 | What does bile do? | Helps digest fats |
| 22 | What is an enzyme? | A biological catalyst |
| 23 | What is a catalyst? | Something that makes a chemical reaction faster |
| 24 | What do enzymes do? | Speed up digestion |
| 25 | What does the pancreas do? | Produce enzymes |
| 26 | Give four adaptations of the small intestine | Very long, contains villi, rich blood supply, has microvilli |
| 27 | Why is the small intestine long? | To increase surface area |
| 28 | Why does the small intestine have villi? | To increase surface area |
| 29 | Why does the small intestine have a rich blood supply? | To keep a high concentration gradient |
| 30 | Why does the small intestine have microvilli? | To increase surface area |
| 31 | What are gut bacteria? | Bacteria found in the large intestines |
| 32 | What do gut bacteria do? | Help digest food |
| 33 | What is obesity? | Having too much body fat |
| 34 | What causes obesity? | Eating too much sugary or fatty foods |
| 35 | What are the risks of obesity? | Coronary heart disease |
| 36 | What does coronary heart disease cause? | The heart to function worse |
| 37 | What is a deficiency disease? | A disease caused by not getting enough of one food group |


| 1 | What is charge? | A property of particles that is positive or negative (some particles have no charge) |
| :---: | :---: | :---: |
| 2 | What is the charge of subatomic particles? | Protons: +1, Neutrons: 0, Electrons: -1 |
| 3 | What is an electrical circuit? | A closed loop which charged particles flow round |
| 4 | In an electrical circuit, what charged particles are flowing? | Electrons |
| 5 | How do we count electrons? | In coulombs |
| 6 | What is current? | How quickly coulombs of electrons are flowing through a circuit |
| 7 | What is the unit for current? | Amps (A) |
| 8 | What does one amp represent? | One coulomb passing a point per second |
| 9 | Which particle transfers energy around a circuit? | Electrons |
| 10 | Where do electrons in a circuit get energy from? | A power supply |
| 11 | Name two power supplies | Electrical cell, mains |
| 12 | What is a battery? | Two or more cells connected together (in series) |
| 13 | What is potential difference? | The amount of energy each coulomb of charge transfers |
| 14 | What is the unit for potential difference? | Volts (V) |
| 15 | What happens to the current when potential difference increases? | It increases |
| 16 | Why does current increase when potential difference is increased? | The electrons are moving more quickly as they have more energy |
| 17 | What is resistance? | How electrons can be slowed down by the circuit |
| 18 | What is the unit for resistance? | Ohms ( $\Omega$ ) |
| 19 | What causes resistance? | Electrical devices |
| 20 | What is a device? | Something which transfers energy from the circuit to the surroundings |
| 21 | How do we draw cells in a circuit? |  |
| 22 | How do we draw batteries in a circuit? | -1-- $1-$ |
| 23 | How do we draw wires in a circuit? |  |
| 24 | What is a switch? | A place in the circuit where it can be broken |
| 25 | How are switches drawn in a circuit? | $\longrightarrow$ - |


| 26 | Name 3 electrical devices that transfer energy in a circuit | Lamp, motor, resistor |
| :---: | :---: | :---: |
| 27 | How do lamps transfer energy to the surroundings? | Waves (and heating) |
| 28 | How do we draw motors? |  |
| 29 | How do motors transfer energy to the surroundings? | Mechanical working (and heating) |
| 30 | How do we draw resistors? | - |
| 31 | How do resistors transfer energy to the surroundings? | Heating |
| 32 | How is the current in a circuit calculated? | $V / R=1$ |
| 33 | How do we measure the current in a circuit? | With an ammeter |
| 34 | How do we draw ammeters? | (A) |
| 35 | How are ammeters connected to a circuit? | As part of the circuit (in series) |
| 36 | How do we measure the potential difference across a device? | With a voltmeter |
| 37 | How do we draw voltmeters? | (v) |
| 38 | How are voltmeters connected to a circuit? | On the back of specific devices (in parallel) |
| 39 | What are the two main types of circuit? | Series and parallel |
| 40 | What are series circuits made of? | A single loop |
| 41 | How does current change in a series circuit change? | It doesn't |
| 42 | How does potential difference in a series circuit change? | It is shared between devices (It drops across each device) |
| 43 | What are parallel circuits made of? | Different loops and junctions |
| 44 | How does current in a parallel circuit change? | Splits at junctions |
| 45 | How does potential difference in a parallel circuit change? | Same across each loop |
| 46 | What is a conductor of electricity? | A material that allows electricity to pass through it |
| 47 | What is an insulator of electricity? | A material which does not allow electricity to pass through it |
| 48 | Give an example of a conductor of electricity | Copper, graphite (any metal) |
| 49 | Give an example of an insulator of electricity | Plastic, wood, rubber (most non-metals) |

## Unit 5: Ecology

| 1 | What is an organism? | A living thing |
| :---: | :---: | :---: |
| 2 | What is a feeding relationship? | How different organisms eat each other |
| 3 | Why do organisms eat each other? | To get energy and nutrients |
| 4 | What diagram do scientists use to show feeding relationships? | Food chains and food webs |
| 5 | In a food chain, what name is given to the organism at the start? | Producer |
| 6 | Where do producers get their energy from? | The Sun |
| 7 | In a food chain or web, what name is given to an organism that eats another organism? | A consumer |
| 8 | In a food chain or web, what name is given to the organism that eats the producer? | Primary consumer |
| 9 | In a food chain or web, what name is given to the organism that eats the primary consumer? | Secondary consumer |
| 10 | In a food chain or web, what name is given to the organism that eats the secondary consumer? | Tertiary consumer |
| 11 | What name is given to organisms that eat animals? | Predators |
| 12 | What name is given to animals that are eaten by other organisms? | Prey |
| 13 | What is a herbivore? | An animal that eats plants |
| 14 | What is a carnivore? | An animal that eats other animals |
| 15 | What is an omnivore? | An animal that eats plants and animals |
| 16 | In a food chain or web, which direction are the arrows drawn in? | From the organism being eaten to the organism eating it |
| 17 | In a food chain or web, why are the arrows drawn from the organism being eaten to the organism eating it? | To show the flow of energy |
| 18 | What is decay? | The breakdown of dead organisms |
| 19 | What is a decomposer? | An organism that causes decay |
| 20 | What are the two main types of decomposer? | Detritivores and microbes |
| 21 | Give an example of a detritivore | Maggots, woodlice |
| 22 | Give an example of a microbe decomposer | Bacteria, fungi |
| 23 | Why is decay important? | It releases waste products that plants can use |
| 24 | What conditions are best for decay? | Lots of oxygen, warm temperatures, moisture |
| 25 | What is the "population" of an organism? | The number of that organism in a particular area |

## Unit 5: Ecology

| 26 | What is interdependence? | How organisms depend on each other for survival |
| :---: | :---: | :---: |
| 27 | What is bioaccumulation? | How toxic materials can build up in a food chain |
| 28 | What is an adaptation? | A way in which an organism suits its environment |
| 29 | Name two types of adaptation | Physical and behavioural |
| 30 | Give an example of a physical adaptation | Sharp teeth, camouflage, foot surface area, spikes |
| 31 | Give an example of a behavioural adaptation | Making nests to shelter offspring (children), huddling for warmth, rolling into a ball, courtship displays |
| 32 | What is competition? | Where organisms have to struggle against each other for resources |
| 33 | What resources do organisms often compete over? | Food, water, space, light, mates |
| 34 | What is a species? | A group of organisms that can breed and produce fertile offspring |
| 35 | What is a mutation? | A change to an organism's DNA |
| 36 | What can mutations result in? | Slight changes to an organism's adaptations |
| 37 | What is natural selection? | How organisms with the most useful adaptations are more likely to survive and reproduce |
| 38 | What is evolution by natural selection? | That over time natural selection can result in large changes to organisms and new species arising |
| 39 | Give two sources of evidence for evolution | The fossil record, bacterial resistance |
| 40 | What does the fossil record show? | That over time species have changed physically |
| 41 | What is bacterial resistance? | How bacteria become resistant to antibiotics |
| 42 | What is extinction? | When an entire species dies out |
| 43 | Name two things that can cause extinction | New predators, new diseases, changes to habitat, more successful competitors, catastrophic events (like volcanoes or asteroid impacts) |
| 44 | How can scientists estimate population size? | Using quadrats |
| 45 | What is a pyramid of numbers? | A chart showing how many of each organism live in an area |
| 46 | What is classification? | How scientists put different organisms in groups |
| 47 | What are the seven classification levels? | Kingdom, phylum, class, order, family, genus, species |
| 48 | What are the five chordate groups? | Mammals, fish, birds, reptiles, amphibians |
| 49 | What is biodiversity? | The variety of different species in an area |
| 50 | Why is biodiversity important? | Moral reasons, species may be useful to us, protects food supply, limits large changes to food chains and webs |
| 51 | How do scientists try to maintain biodiversity? | Gene banks, protection of habitats, breeding programmes |


| 1 | What do we call a closed loop which can carry electricity? | A circuit |
| :---: | :---: | :---: |
| 2 | How do we count electrons? | In coulombs |
| 3 | What is current? | How quickly coulombs of electrons are flowing through a circuit |
| 4 | What is the unit and unit symbol for current? | Amps (A) |
| 5 | What does 1A represent? | One coulomb passing a point per second |
| 6 | Which particle transfers energy around a circuit? | Electrons |
| 7 | Where do electrons in a circuit get energy from? | A power supply |
| 8 | Name two power supplies | Electrical cell/battery, mains power |
| 9 | What is a battery? | Two or more cells connected together (in series) |
| 10 | What is potential difference? | The amount of energy each coulomb of charge transfers |
| 11 | What is the unit and unit symbol for potential difference? | Volts (V) |
| 12 | What happens to the current when potential difference increases? | It increases |
| 13 | What is resistance? | How electrons can be slowed down by the circuit |
| 14 | What is the unit and unit symbol for resistance? | Ohms ( $\Omega$ ) |
| 15 | What causes resistance? | Electrical devices |
| 16 | What is a device? | Something which transfers energy from the circuit to the surroundings |
| 17 | What is a switch? | A place in the circuit where it can be broken |
| 18 | Name 3 electrical devices that transfer energy in a circuit | Lamp, motor, resistor |


| 19 | How do lamps transfer energy to the surroundings? | Waves (and heating) |
| :---: | :---: | :---: |
| 20 | How do motors transfer energy to the surroundings? | Mechanical working (and heating) |
| 21 | How do resistors transfer energy to the surroundings? | Heating |
| 22 | What equation links potential difference, resistance and current? | $V / R=1$ |
| 23 | How do we measure the current in a circuit? | With an ammeter |
| 24 | How are ammeters connected to a circuit? | As part of the circuit (in series) |
| 25 | How do we measure the potential difference across a device? | With a voltmeter |
| 26 | How are voltmeters connected to a circuit? | Across (on the back of) specific devices (in parallel) |
| 27 | What are the two main types of circuit? | Series and parallel |
| 28 | What are series circuits made of? | A single loop |
| 29 | How does current change in a series circuit change? | It doesn' $\dagger$ |
| 30 | How does potential difference in a series circuit change? | It is shared between devices (It drops across each device) |
| 31 | What are parallel circuits made of? | Different loops and junctions |
| 32 | How does current in a parallel circuit change? | Splits at junctions |
| 33 | How does potential difference in a parallel circuit change? | Same across each loop |
| 34 | Give an example of a conductor of electricity | Copper, graphite (any metal) |
| 35 | Give an example of an insulator of electricity | Plastic, wood, rubber (most non-metals) |

Unit 6: 8PEa Electricity

| 36 | What is a field? | The area around an object where a non-contact force acts |
| :---: | :---: | :---: |
| 37 | Give three examples of fields | Gravitational, magnetic, electric |
| 38 | What are the two ends of a magnet called? | North pole and south pole |
| 39 | What happens when opposite magnetic poles are brought together? | They attract |
| 40 | What happens when the same magnetic poles are brought together? | They repel |
| 41 | What is a magnetic substance? | Something which is attracted to magnets |
| 42 | Name two magnetic substances | Iron, nickel (and cobalt) |
| 43 | What is the direction of a magnetic field? | From north to south |
| 44 | What are electromagnets formed from? | A coil of wire round an iron core |
| 45 | In what two ways can an electromagnet be made stronger? | Add more turns on the coil, increase current |
| 46 | What are the three options for charge? | Positive, negative, neutral |
| 47 | What is the (relative) charge on a proton, electron and neutron? | Proton: +1, electron: -1, neutron: 0 |
| 48 | What happens when the same charges come into contact? | They repel |
| 49 | What happens when opposite charges come into contact? | They attract |
| 50 | What is an electric field? | The field around a charged object |
| 51 | How can objects gain a static charge? | By being rubbed together |
| 52 | How do electrons cause objects to have a static charge? | They can move from one object to another |
| 53 | If an object gains electrons, what charge does it have? | Negative |
| 54 | If an object loses electrons, what charge does it have? | Positive |
| 55 | What can a large build-up of static charge cause? | Electric shock |


| 1 | What are the three main layers of Earth? | Crust, mantle, core |
| :---: | :---: | :---: |
| 2 | Which layer of Earth is made of solid rock? | Crust |
| 3 | Which layer of Earth flows very slowly? | Mantle |
| 4 | Which layer of Earth is solid metal? | Core |
| 5 | Why can the crust move? | It has tectonic plates (which are moved by the mantle) |
| 6 | What are the three types of rock? | Sedimentary, igneous, metamorphic |
| 7 | How do sedimentary rocks form? | Smaller bits of other rocks get stuck together |
| 8 | Give two properties of sedimentary rocks | Crumbly, form in layers |
| 9 | How do igneous rocks form? | When molten (liquid) rock cools and solidifies |
| 10 | How do metamorphic rocks form? | When rocks are compressed or heated within Earth's crust |
| 11 | In what kind of rock are fossils found? | Sedimentary |
| 12 | What is a porous rock? | A rock which absorbs water |
| 13 | What are the two main gases in Earth's atmosphere? | Oxygen and nitrogen |
| 14 | What approximate \% of Earth's atmosphere is nitrogen? | 78\% |
| 15 | What approximate \% of Earth's atmosphere is oxygen? | 21\% |
| 16 | Name two gases other than oxygen and nitrogen that are in Earth's atmosphere | Carbon dioxide, water vapour |
| 17 | How is carbon dioxide removed from the atmosphere? | Photosynthesis |
| 18 | In what three ways is carbon dioxide added to the atmosphere? | Respiration, combustion of fossil fuels, decomposition |
| 19 | Why is adding more carbon dioxide to the atmosphere a problem? | It causes global warming (which causes climate change) |
| 20 | How has the amount of carbon dioxide in the atmosphere changed over the last 200 years? | Increased rapidly |
| 21 | Why has the amount of carbon dioxide in the atmosphere increased rapidly over the last $\mathbf{2 0 0}$ years? | Humans began burning fossil fuels |

## Geography

1 of 7
Tectonics

## Key Processes:

## Tectonic Drift

- The earth was initially a super continent called Pangea 250 million years ago.
- Plates move a few centimetres a year, but this adds up to thousands of kilometres over millions of year.
- This movement is called Tectonic Drift.



## Key Diagrams:



## Geography

2 of 7

## Tectonics

## Key Processes:

## Why do people live in areas of tecłonic hazards?

1. Creates tourism (e.g. Vesuvius in Italy).
2. The ash makes the land fertile meaning jobs for farmers.
3. Friends and family may live nearby.
4. Some people cannot afford to live elsewhere.

| Predicting and Preparing for Volcanic Eruptions | Predicting and Preparing for Earthquakes |
| :--- | :--- |
| Tiltmeters used to measure change in shape. | Use seismometers to identify irregularities in <br> tremors. |
| Spectrometers to measure sulphur dioxide emissions. | Measure radon gas that will appear as cracks in <br> the ground. |
| Evacuation and exclusion zones around the volcano. | Retrofit existing buildings with cross bracings. |
| Ensure medical, food and water supplies are stocked. | Practice earthquake drills. |

## Key Diagrams:



## Application:

| Earthquake location <br> Both 7.8 magnitude | LIC Gorkha Nepal, 2015 <br> GDP per capita: US\$ 690 | HIC Kaikoura, New Zealand 2016: <br> GDP per capita: US\$ 40,331 |
| :--- | :--- | :--- |
| Primary effects | 9,000 people died, 20,000 injured. | 2 died and 50 injured. |
| Secondary effects | A lack of clean water led to 13 dying <br> from Typhus. | 100,000 landslides blocked roads <br> and rail. |
| Short term responses | Search and rescue teams, water and <br> medical support arrived quickly from <br> India and China. | 200 of the most vulnerable were <br> evacuated from Kaikoura in 24 <br> hours. |
| Long term responses | The road from Nepal to Tibet was <br> reopened after 2 years. | Most roads and rail systems were <br> repaired within 2 years. |



## Coasts

## Key Processes:

| Erosion Types |  |
| :--- | :--- |
| Abrasion | Eroded material is hurled or scrapes <br> against the cliff, breaking off rock. |
| Hydraulic <br> Action | Waves compress pockets of air in <br> cracks in a cliff, causing the crack <br> to widen, breaking off rock. |
| Solution | Cliffs e.g. chalk dissolve in seawater. |
| Attrition | Eroded material in the sea, hit into <br> each other breaking down into <br> smaller pieces. |


| Hydraulic Action | Abrasion |
| :---: | :---: |
| $\text { cliff } \Rightarrow D D D$ | clift $N D$ |
| A Hrition | Solution |
| (2) <br> (3) $:$. | $\begin{aligned} & \mathrm{CO}_{2} \text { dissolved in } \\ & \text { seawsers a aciaic } \end{aligned}$ <br> Limestore dissolved |


| Weathering Types |  |
| :--- | :--- |
| Freeze-Thaw <br> Weathering <br> (Mechanical) | Temperature changes causes water to freeze <br> and then melt widening cracks in rocks until <br> they break. |
| Root Action <br> (Biological) | Seeds fall into cracks in rocks. These <br> germinate and the roots break the rocks <br> open until they break. |
| Burrowing (Biological) | Animals widen cracks in rocks. |
| Acid Rain (Chemical <br> Weathering) | Rainwater is slightly acidic due to dissolved <br> $\mathrm{CO}_{2}$. This reacts with limestone rock causing <br> it to dissolve. |

## Key Erosional Diagrams:



Wave Cut Platform Formation


| Application: Holderness Coastal Management Scheme |  |  |
| :---: | :---: | :---: |
| Reasons to protect | Coastal Management Strategies | Successes and Failures |
| 1. Rocks are made of soft rock (boulder clay), eroding at $2 m$ per year. <br> 2. The B1242 runs through Mappleton and would be expensive to re-route. | 1. 2 Rock groynes put in place at Mappleton to trap sediment being transported by longshore drift, creating a wider beach to absorb the power of the waves. <br> 2. Rock armour has been placed in front of the cliffs to absorb the wave energy. | 1. Good - erosion in front of Mappleton has reduced, so the road has been saved. <br> 2. Bad-beaches further south have been starved of sediment so erosion has increased e.g. at Great Cowden. |

## Coasts

## Key Processes:

| Transportation Types |  |
| :--- | :--- |
| 1. Traction | Large rocks are rolled along the seabed. |
| 2. Saltation | Smaller rocks are bounced along the <br> seabed. |
| 3. Suspension | Smaller material/sediment is held in the <br> water. |
| 4. Solution | The smallest silt and sediment is dissolved <br> into the water. |



Deposition
Description

Material is dropped by the waves due to a loss of energy and velocity.

## Key Depositional Diagrams:



## Population and Migration

## Key Processes:

- Sparsely Populated - Places which contain few people per km sq.
- Densely populated - Places which contain many people per km sq.
- Population density - The number of people per km sq.



## Factors affecting Population Density

Human = Red
Physical = Black

| Densely Populated | Sparsely Populated |
| :---: | :---: |
| Pleasant climate | Steep slopes |
| Fertile soil | Poor soils |
| Access to infrastructure and services | Lack of access to infrastructure |
| Access to high paying jobs | Low paying, low skill jobs |

## Key Diagrams: The Demographic Transition Model



## Stages of the DTM

## Stage 1:

- Limited medical care + poor diet = high infant mortality.
- Strong religious values = high birth rate.
- Example: Indigenous Tribes in the Amazon Rainforest.


## Stage 2:

- Increase in access to basic medical care = decreased infant mortality and death rate.
- Diets also improved.
- Birth rate remains high as children are needed to work on farms.
- Birth rate also remains high as religion plays a significant role in society.
- Example: Afghanistan.


## Stage 3:

- Decrease in birth rate as women are able to access education.
- Decrease in birth rate as religion loses importance in society and contraception becomes available.
- Death rate continues to decline due to improvements in diet, healthcare and physical fitness.
- Total population continues to increase as there is natural increase.
- Example: India.


## Stage 4:

- Birth rate remains low and fluctuating as women put careers before having children.
- Death rate remains low due to improvements in healthcare, diet and physical fitness.
- Total population reaches its peak and begins to fall.
- Example: The UK.


## Stage 5:

- Death rate is greater than birth rate = natural decrease.
- Ageing population due to improvements in healthcare, diet and physical fitness.
- Children are expensive so birth rates continue to fall.


## Geography

 6 of 7
## Population and Migration

Population structure means the number / proportion of people in each age range, for each gender. Population pyramids show the population structure of the country they represent.
There are three groups on a population pyramid:

1. Economically active - 16-65 age group, working age and can provide taxes.
2. Young dependents - 0-15 age range, rely on the working age for support via taxes.
3. Elderly dependents - 65+ age range, rely on the working age for support via taxes.
 to a lack of contraception, high levels of religiosity and women getting married young.

## Application: The UK's Ageing Population

## Causes

1. Better health care so illnesses are treated with some success.
2. Better diet means heart attacks and diseases related to unhealthy eating are on the decline.
3. Fitness; the elderly are looking after themselves better than ever before, e.g. attending the gym etc.

## Impacts

1. $2 / 3 \mathrm{~s}$ of hospital beds taken by those over the age of 65 , this can increase waiting times, putting pressure on the NHS.
2. They receive a state pension causing a significant cost for the government.
3. The elderly often look after grandchildren, this means that parents do not have to pay expensive childcare costs, so parents have more disposable cash.

## Population and Migration

## Key Processes:



## Application:

| Causes of Poland to UK Migration | Consequence for Host Country (UK) | Consequences for the Source Country (Poland) |
| :---: | :---: | :---: |
| Poland has always had a culture of mobility. For example, in the nineteenth century hundreds of thousands of Polish people migrated to the United States. | Polish migrants alone contribute £2.5bn in tax every year. This provides the government with more tax to invest in improving services and infrastructure. | Poland gains £1bn in remittances which the Polish government can invest in infrastructure and services. These remittances reduce the amount the UK government can invest in services and infrastructure. |
| The UK Government offered British citizenship to over 200,000 displaced Polish soldiers post WW2. This meant there was already an established Polish Diaspora in the UK. | About 10,500 Poles work in the NHS. These individuals help to treat sick Britons, increasing life expectancies in the UK. |  |
| Following the end of communism, Poland had high unemployment and low wages. For example, in 2004, unemployment in Poland was $20 \%$ - in the UK it was only $4 \%$. | $80 \%$ of migrants are aged between 18 and 35 , so the UK's ageing population is counteracted. |  |
| In 2004, Poland joined the European Union, giving Polish people the legal right to come, live and work in the UK. The UK was one of only three countries that allowed these new European union migrants to come and work straight away. |  |  |


| Timeline |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1. Lucretius wrote the poem De rerum natura (On the Nature of Things) C50 BC | 3. The end of the Roman Empire c476 AD | 5. Ideas, such as logic, flooded into Western Europe from the Islamic World and were studied by scholars such as John of Salisbury <br> 1100s | 7. Poggio discovered a copy of De rerum natura in a manuscript in a German monastery $1417$ | 9. Many buildings were rebuilt in Rome <br> Early 1500s |
| c150 AD | 762 | 1330s | c1440 | 1543 |
| 2. Ptolemy wrote his most famous work on astronomy | 4. Baghdad was built and scholars began studying and creating new knowledge at the House of Wisdom | 6. Petrarch began searching for original versions of texts from Ancient Greece and Rome | 8. The printing press was invented in Germany | 10. Copernicus published a book containing his model of the universe, showing the Earth orbiting the Sun |


| Key People |  |
| :--- | :--- |
| 11. Aristotle | An Ancient Greek philosopher. |
| 12. Euclid | An Ancient Greek mathematician. |
| 13. Ptolemy | An astronomer from Alexandria. |
| 14. Lucretius | A philosopher, who wrote De rerum natura at the height of the Roman Empire. |
| 15. Al-Khwarizmi | An Islamic scholar in ninth-century Baghdad who wrote works on maths and astronomy. |
| 16. John of Salisbury | An English scholar, author and bishop in the twelfth century. |
| 17. Petrarch | An Italian scholar and one of the first humanists. |
| 18. Poggio <br> Bracciolini | A humanist scholar who discovered a long-forgotten poem by Lucretius in a monastery. |
| 19. Niccolo Niccoli | A humanist scholar who copied De rerum natura in his angled handwriting. |
| 20. Raphael | A Renaissance artist who decorated the pope's apartments in Rome with classical <br> scenes. |
| 21. Michelangelo | A Renaissance artist who painted the ceiling of the Sistine Chapel in Rome. |
| 22. Copernicus | An astronomer who argued that the Earth orbits the Sun. |
| 23. Galileo | An astronomer and physicist who supported Copernicus' model of the universe. |


| Key Words |  |
| :--- | :--- |
| $\begin{array}{l}\text { 24. Classical } \\ \text { antiquity }\end{array}$ | $\begin{array}{l}\text { The period of time when the Mediterranean was } \\ \text { dominated by Ancient Greece and the Roman } \\ \text { Empire. }\end{array}$ |
| 25. Humanism | $\begin{array}{l}\text { A movement that started in the 14th century, which } \\ \text { wanted to re-discover the wisdom of ancient texts and } \\ \text { focused more on the human world. }\end{array}$ |
| 26. Manuscript | A book copied by hand. |$\}$| A community of monks living together. |
| :--- | :--- |$|$| 27. Monastery |
| :--- |
| An artistic technique to represent three-dimensional |
| objects on a two-dimensional surface. | 2 of 11

## Topic 1: The Renaissance

## What Kind of Change Was the Renaissance?

- Following the end of the Roman Empire, monasteries were the main institutions in Western Europe that cared about books.


## 30. Medieval manuscripts

- Books had to be copied out by hand, usually by monks, in order to be preserved but many pre-Christian texts from the classical period stopped being copied. Therefore, the availability of and interest in classical learning, wisdom and texts declined in Western Europe.
- However, some classical texts continued to be studied in cathedral schools in Western Europe, and some arrived in Europe from the Islamic world in Arabic translations.
- In the 1330s, Petrarch, an Italian scholar, became one of the first people to start searching for original versions of forgotten texts from Ancient Greece and Rome.
- Scholars like Petrarch became known as 'humanists' - they increased the amount of interest in classical antiquity and believed that the wisdom contained in classical texts would help them to purify the world and the Church.
- Poggio Bracciolini was inspired by Petrarch. In 1417 he discovered a long-lost poem by the Roman poet Lucretius, called De rerum natura (On the Nature of Things).
- In his poem, Lucretius described everything in the world as being built from atoms, which randomly collided and joined together to form larger objects.
- Lucretius' poem suggested there was no special plan or place for humans in the universe, challenging the teachings of the medieval Church.
- Lucretius's poem argued that everything in the world was temporary and would eventually break up into atoms, and so it encouraged people to embrace beauty and pleasure while alive.
- In c1440, the printing press was invented in Germany, which made books cheaper and more widely available. Many classical texts, such as the complete works of Aristotle and a textbook version of Ptolemy's ideas, were printed in large numbers, along with new works.
- As books became more widely read, scholars began to spot errors in them, correct these errors and so suggest new theories (e.g. Copernicus and Galileo).
- Wealthy merchants spent money on new palaces, such as those in Venice, which sometimes included Islamic influences in their designs.

33. Renaissance art and architecture

- Artists were inspired by the classical world, and also mixed new colours using pigments/dyes from the East and used perspective to add depth to paintings.
- There was lots of re-building in Rome as the city wanted to emphasise its links with the Roman Empire, and new papal buildings were decorated by Raphael and Michelangelo.

| Timeline |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Henry VIII is crowned King of England $1509$ | 3. The Pope issues a papal bull asking Luther to take back his views. Luther throws it into flames 1520 | 5. The Act of Supremacy makes Henry the Head of the Church and officially marks the break with Rome$1534$ |  | 7. Edward VI is crowned King of England aged 9$1547$ |  | 9. Elizabeth I is crowned Queen of England$1558$ |  | 11. Sir Christopher Trychay dies $1574$ |
| 1517 | 1533 <br> 4. Henry VIII secretly marries Anne Boleyn |  | 1536 |  | 1553 |  |  |  |
| 2. Martin Luther publishes his 95 theses stating why indulgences are wrong |  |  | 6. Dissolution of the monasteries. Henry VIII issues a set of injunctions in Morebath |  | 8. Mary I is crowned Queen England |  |  |  |


| Key People |  | Key Words |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 12. Anne Boleyn | Henry VIII's second wife, who he divorced Catherine of Aragon for. | 21. Ale | A village party where ale (beer) was the main drink. | 30. Morebath | A village in Devon, in South-West England. |
| 13. Catherine of Aragon | Henry VIII's first wife, who he divorced because she wasn' $\dagger$ bearing sons. | 22. Altar | A table used for religious ceremonies. | 31. Papal bull | A formal announcement from the Pope. |
|  |  | 23. Break with Rome | When Henry VIII made himself Head of the Church of England in 1534. | 32. Protestant | A form of Christianity which emerged during the 1500 s in protest against Catholicism. |
| 14. Edward VI | Protestant King of England 1547-1553. |  |  |  |  |
| 15. Elizabeth I | Protestant Queen of England 15581603. | 24. Catholic | A major branch of Christianity, led by the Pope in Rome. | 33. Puritan | An extreme Protestant. |
| 16. Henry VIII | King of England 1509-47 who broke with Rome. | 25. Diet | A meeting. | 34. Recant | Take back. |
|  |  | 26. Heir | The person who is next in line for the throne. | 35. Reformation | A movement to reform the Christian Church, which began with Martin Luther in Germany. |
| 17. Martin Luther | A German monk who helped start the Reformation. |  |  |  |  |
| 18. Mary I | Catholic Queen of England 1553-58. | 27. Indulgence | A forgiveness of one's sins purchased from the medieval Catholic Church. | 36. Store | Village organisations that raised money for the upkeep of the Church, saints' images and candles. |
| 19. Professor Eamon Duffy | Historian who studied Sir Christopher's accounts. | 28. Injunctions | Official order that prevents something. | 37. Vestment | Garment worn by Christian clergymen, colourful and richly decorated for Catholics. |
| 20. Sir Christopher Trychay | Morebath's village priest from 15191574. | 29. Middle Way | Elizabeth's religious settlement (compromise). It returned England to Protestantism but allowed Catholics to worship in secret. |  |  |


| Timeline |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. Christopher Columbus set off in search of the Indies on behalf of the Spanish monarch. He 'found' the Caribbean. $1492$ | 3. Elizabeth was crowned Queen of England (she ascended the throne in 1558) 1559 | 5. Elizabeth's Catholic cousin, Mary Stuart, arrived in England 1568 | 7. Francis Drake set out to Panama with plans to steal Spanish gold and silver <br> 1572 |  | 9. Drake and Diego set out together to circumnavigate the globe. <br> 1577 |  | 11. Mary Stuart was executed, which angered many Catholics in England and Europe. <br> 1587 | 13. Sultan Ahmad al-Mansur sent a delegation from Morocco to England, led by Abd el-Ouahed ben Messaoud to convince Elizabeth that England and Morocco should invade Spain together <br> 1600 |  |
| 1493 | 1560s onwards <br> 4. English privateers started to raid Spanish shipping and port towns in the Caribbean | 1570 <br> 6. The Pope issued a papal bull excommunicating Elizabeth, prompting more plots against her |  |  |  |  | 1585-86 |  | 1588 |
| 2. The Pope gave the Spanish permission to seek out and conquer any lands in this 'New World' belonging to those who weren't Christian |  |  |  | 8. Drake and Diego captured over 150,000 pesos of Spanish silver and gold during a raid on Nombre de Dios |  | 10. First failed attempt to colonise Roanoke Island. In 1587, there was a second attempt which was found to have failed in 1590 - after all the colonists mysteriously disappeared! |  |  | 12. The Spanish Armada was defeated by the English |


| Key People |  |  |  |
| :---: | :---: | :---: | :---: |
| 14. Abd el-Ouahed ben Messaoud | The ambassador Ahmad al-Mansur sent to England as part of the Morocco delegation in 1600. | 20. Mary Stuart | Elizabeth's Catholic cousin, who also had a claim to the English throne. |
| 15. Cimarrons | A group of enslaved Africans who had escaped and who Drake worked with to capture a large amount of gold and silver from the Spanish. | 21. Philip II | The king of Spain during Elizabeth's reign. |
| 16. Diego, the Circumnavigator | A man who joined Drake's crew in Panama and later accompanied him on his circumnavigation voyage. | 22. Sultan Ahmad alMansur | The ruler of Morocco at the end of Elizabeth's reign. |
| 17. Francis Drake | An English privateer who worked for Elizabeth I and circumnavigated the globe. | 23. Walter Raleigh | English sailor and explorer, and a noted favourite of Queen Elizabeth I. |
| 18. Hugh O'Neill | A Gaelic chieftain who fought against the English for control of the whole of Ireland in the Nine Years' War. | 24. William | An English playwright who used stories from |
| 19. Mancheo and Wanchese | Two young indigenous leaders who were brought to England and helped create an English-Algonquian dictionary. | kespeare | the Islamic world as inspiration for his plays. |


| Key Words |  |
| :--- | :--- |
| 25. Armada | A large fleet of warships. |
| 26. Circumnavigation | To travel completely around, usually by <br> sailing. |
| 27. Colonisation | A process where a government or a group <br> of people take control of another country <br> to make it part of its empire. |
| 28. Colony | A country or area controlled by another <br> country. A colony is part of an empire. |
| 29. Delegation | A body of representatives usually sent to <br> negotiate with another country or leader. |
| 30. Empire | A country or area controlled by another <br> country. A colony is part of an empire. |
| 31. Indigenous people | People who inhabited land before it was <br> colonised. |
| 32. Privateer | Pirates with permission from the Queen. |
| 33. Roanoke Island | An island just off the coast of North <br> America, inhabited by the Algonquian <br> people in the lth century. |


| Timeline |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. James I became King of England $1603$ | 3. Charles I became King of England $1625$ | 5. Charles I dissolved Parliament for 11 years until 1640 (Personal Rule) 1629 | 7. Charles I made his people pay Ship Money (inland areas from 1635) $1634$ | 9. Taxpayers' Strike |  | 11. Parliament issued Grand Remonstrance <br> 1641 | 13. Parliament passed the Nineteen Propositions <br> June 1642 | 15. Trial and execution of Charles I $1649$ | 17. Oliver Cromwell became Lord Protector $1653$ |
| 1605 | 1625 | 1633 | 1637 |  | 1640 | Jan 1642 | Aug 1642 | 1649 | 1660 |
| 2.The Gunpowder Plot almost destroyed Parliament | 4. Charles married Henrietta Maria | 6. Charles I and Archbishop Laud start Arminian reforms | 8. Archbishop Laud introduced his prayer book in Scotland | 10. Charles I had to recall Parliament to pay for the war with Scotland |  | 12. Charles I stormed into the House of Commons to arrest five MPs | 14. The English Civil War started | 16. England became a Republic (The Commonwealth) | 18. Charles II was crowned King, beginning the Restoration |
| Key People |  |  | Key Words |  |  |  |  |  |  |
| 19. James I | The first Stuart King of England, who came to the throne after the death of Elizabeth I. |  | 25. Absolutist |  | A ruler who has absolute power over their people. |  | 31. Parliament | The group of people who make or change a country's laws. |  |
| 20. Charles I | The second Stuart King of England, executed by Parliament following the Civil War. |  | 26. Arminian |  | Protestants who worshipped in a similar way to Catholics. |  | 32. Prayer Book | A book containing formal prayers to be used in worship. |  |
|  |  |  | 27. Civil War |  | A war between people from the same country. |  | 33. Radical | Somebody who wants big changes to government or society. |  |
| 21. Henrietta Maria | A Catholic French princess, who married Charles. |  | 28. Divine Right of Kings |  | The belief that the monarch received their right to rule directly from God. |  | 34. Republic | A country that is not ruled by a monarch. |  |
| 22. Lucy Hay | A close friend of Henrietta Maria, who switched sides repeatedly during the English Civil War. |  |  |  |  |  |  |  |  |
|  |  |  | 29. Impeachment |  | Parliament accusing a government official of abusing the power of their position. |  | 35. Restoration | The return of the monarchy to England with Charles II's coronation in 1660 . |  |
| 23. William Laud | Arminian Archbishop of Canterbury. |  |  |  |  |  |  |  |  |
| 24. Charles II | The King of England following the Restoration. |  | 30. Member of Parliament |  | The person in Parliament who represents the people from one area. |  | 36. Treason | A crime against your own people, nation or monarch. |  |


| Timeline |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. British colonies were established in North America. Britain became the dominant European trader of enslaved people throughout 17th-19th centuries 1607-1732 | 3. The British colonies in North America declared independence and formed the USA <br> 1776 | 5. Petitions flooded Parliament to abolish the slave trade | 7. Haitian/St Domingue rebellion led by Toussaint L'Ouverture | 9. Haiti declared independent state $1804$ | 11. Enslaved people in Jamaica go on strike in protest. Plantation owners respond with violence | 13. End of the apprenticeship clause, which bound formerly enslaved people to their former owners for up to six years after abolition. Many enslaved people within British colonies were finally given their freedom <br> 1838 |
| 1768 <br> 2. Granville Sharpe, an abolitionist, won the legal case of Jonathan Strong | 1781 <br> 4. Enslaved people who had become sick were thrown off the slave ship Zong | 1789 <br> 6. Olaudah Equiano wrote his life story. His campaign for slave ship Zong was successful | 1797 <br> 8. William Wilberforce joined 12 opponents of slavery, including Thomas Clarkson. He made speeches in Parliament | 10. The slave in the British E People could sold althoug already ensl 'property' | 807 <br> ade was abolished pire by Parliament. not be bought or people who were ved remained the of their masters | 1833 <br> 12. Slavery was abolished in the British Empire, but only children under the age of 6 were freed immediately |


| Key People |  |
| :--- | :--- |
| 14. Adam Smith | Leader of The Enlightenment movement, he was an economist and a philosopher from Scotland. He is known as <br> the 'father of capitalism' and believed that free market economies were required for financial success. |
| 15. John Newton | Worked on slave ships as a young man. After a Christian conversion he renounced the slave trade and became a <br> prominent abolitionist. He died shortly after the 1807 Abolition Act was passed in parliament. |
| 16. Olaudah Equiano | A formerly enslaved person who had fought repeatedly for his freedom. He wrote an autobiography in 1789 called <br> 'The interesting narrative of the life of Olaudah Equiano'. |
| 17. Thomas Clarkson | A key campaigner for abolition. He formed the Society for the Abolition of the Slave Trade in 1787. After the Slave <br> Act was passed in 1807, he continued campaigning in the Americas to abolish slavery there. |
| 18. Toussaint L'Ouverture | Leader of the St Domingue, or Haitian, rebellion. |
| 19. William Wilberforce | MP between 1784-1812 who proposed multiple abolition bills. |


| Key People |  |  |  |
| :--- | :--- | :--- | :--- |
| 20. Abolition | $\begin{array}{l}\text { The act of officially ending or stopping something, } \\ \text { e.g. slavery. }\end{array}$ | 31. Petition | $\begin{array}{l}\text { A formal written request typically with many } \\ \text { signatures appealing to authority about a } \\ \text { particular cause, e.g. slavery. }\end{array}$ |
| 21. Abolitionists | The leading campaigners against slavery. | 32. Plantation | $\begin{array}{l}\text { A large estate on which crops such as coffee, } \\ \text { sugar, tobacco and cotton are grown. }\end{array}$ |
| 22. Boycott | To stop buying or using goods as a form of protest. | 33. Propaganda | $\begin{array}{l}\text { Information or ideas, which are often selective, } \\ \text { used to make people believe something } .\end{array}$ |
| 23. Campaign | $\begin{array}{l}\text { To work in an organised way towards a common } \\ \text { goal, usually a political or social one. }\end{array}$ | 34. Resistance | $\begin{array}{l}\text { Refusing to accept something and challenging } \\ \text { it within their means, e.g. cultural resistance. }\end{array}$ |
| 24. Colony | $\begin{array}{l}\text { A country or area under full or partial control of } \\ \text { another country and settlers from that country. }\end{array}$ | 35. Slave auctions | $\begin{array}{l}\text { A place where enslaved people were traded to } \\ \text { the highest bidder. }\end{array}$ |
| 25. Dehumanisation | $\begin{array}{l}\text { Any thought or act that regards a person as 'less } \\ \text { than' human, which enslaved Africans heavily } \\ \text { resisted. }\end{array}$ | 36. Slave |  |
| rebellions | $\begin{array}{l}\text { An armed uprising by enslaved people against } \\ \text { the plantation owners and the colonising } \\ \text { authorities. }\end{array}$ |  |  |
| 26. Empire | $\begin{array}{l}\text { A large group of countries ruled over by a single } \\ \text { monarch or sovereign state, e.g. The British Empire, } \\ \text { USSR, The Roman Empire. }\end{array}$ | 37. The Americas | $\begin{array}{l}\text { A broad geographical term, which includes the } \\ \text { North (USA after 1776) and South America and } \\ \text { the Caribbean Islands, known as The West Indies. }\end{array}$ |
| 27. Free Market | $\begin{array}{l}\text { An economic system in which prices are } \\ \text { determined by unrestricted competition by private } \\ \text { businesses responding to supply and demand. }\end{array}$ | 38. The |  |
| Enlightenment | $\begin{array}{l}\text { A European intellectual movement of the late } \\ \text { 17th and early 18th centuries emphasising } \\ \text { reason and individualism over tradition. } \\ \text { Influenced by philosophers such as Adam Smith. }\end{array}$ |  |  |
| 28. Interpretation | $\begin{array}{l}\text { Historians' construction of the past as a way of } \\ \text { explaining an event or period, using contemporary } \\ \text { sources. }\end{array}$ | 39. Trade triangle | $\begin{array}{l}\text { A three-point trade process, from the } \\ \text { transportation of commodities to West Africa, } \\ \text { enslaved Africans to The Americas and raw } \\ \text { materials to Britain. }\end{array}$ |
| 29. Middle Passage | $\begin{array}{l}\text { The sea journey undertaken by slave ships from West } \\ \text { Africa across the Atlantic Ocean to The Americas. }\end{array}$ | 40. Transatlantic |  |
| slave trade |  |  |  |\(\left.\quad \begin{array}{l}The transportation by slave traders of enslaved <br>

African people, to the Americas, from the 16th <br>

to the 19th centuries.\end{array}\right\}\)| 30. Overseer |
| :--- |


| Timeline |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1. Thomas Newcomen developed the first steam engine, which provided power by burning coal to produce steam <br> 1712 | 3. James Watt and Matthew Boulton improved the steam engine <br> 1770s | 5. Parliament passed the Great Reform Act <br> 1832 | 7. Approximately 53,000 died from a cholera epidemic 1848-1849 | 9. The government asked Joseph Bazalgette to build a sewer system <br> 1858 |
| 1764 | 1819 | 1833 | 1858 | 1888 |
| 2. James Hargreaves invented the Spinning Jenny, which could spin the same amount of cotton as eight workers | 4. Peterloo Massacre | 6. Parliament passed the Factory Act | 8. The Great Stink | 10. Match Girls' Strike |


| Key People |  | Key Words |  |
| :---: | :---: | :---: | :---: |
| 11. Annie Besant | A middle-class campaigner, who wrote an article about the conditions at the Bryant \& May factory. | 19. Borough | An area which is represented by an MP in parliament. People in the borough vote for who they want to be their MP. |
| 12. Factory foreman | A worker who supervised and directed other workers. | 20. Cotton mill | A factory with machines for spinning or weaving to make cloth from cotton. |
| 13. Henry Hunt | The person who wanted to give a speech about Parliamentary reform before the Peterloo Massacre. | 21. Electorate | The group of people who have the right to vote in elections. |
| 14. John Snow | The first person to make the connection between contaminated water and cholera. | 22. Middle class | The group of people who would employ others to work for them (e.g. factory owner). |
| 15. Match Girls | The workers at the Bryant \& May factory who went on strike. | 23. Strike | A refusal to work by a group of people in order to highlight an issue with their employer e.g. poor working conditions. |
| 16. Members of Parliament (MPs) | A representative of a constituency in Parliament, who helps to make and change laws. | 24. Suffrage | The right to vote in elections. |
| 17. Piecer | A child worker made to fix snapped threads in a cotton mill. | 25. Trade union | An organisation of workers who fight for better pay, rights and conditions for workers. |
| 18. Scavenger | A child worker made to crawl below spinning machines to collect loose cotton. | 26. Working class | The group of people who work in return for wages, usually in manual or industrial work (e.g. in factories). |


| Key Words |  |
| :--- | :--- |
| 20. Borough | An area which is represented by an MP in parliament. People in the borough vote for who they want to be their MP. |
| 21. Cotton mill | A factory with machines for spinning or weaving to make cloth from cotton. |
| 22. Electorate | The group of people who have the right to vote in elections. |
| 23. Factory Foreman | A worker who supervised and directed other workers. |
| 24. Piecer | A child worker made to fix snapped threads in a cotton mill. |
| 25. Scavenger | A child worker made to crawl below spinning machines to collect loose cotton. |
| 26. Sewer | An underground tunnel for carrying away human waste and waste material. |
| 27. Trade Union | An organisation of workers who fight for better pay, rights and conditions for workers. |
| 28. Strike | A refusal to work by a group of people in order to highlight an issue with their employer e.g. poor working conditions. |
| 29. Protest | A public expression of your objection/disapproval of something. |
| 30. Suffrage | The right to vote in elections. |
| 31. MP | A Member of Parliament who represents a constituency. |
| 32. Working Class | The group of people who work in return for wages, usually in manual or industrial work (e.g. in factories). |
| 33. Middle Class | The group of people who would employ others to work for them (e.g. factory owner). |


| What was the Industrial Revolution? |  |
| :--- | :--- |
| 34. Agriculture | New inventions meant that farms could grow more food using fewer workers. |
| 35. Population | The population of Britain increased rapidly, increasing the demand for goods. |
| 36. Technology | New machines and technology, such as the steam engine, were invented so goods could be manufactured more <br> quickly. |
| 37. Factories | Goods began to be manufactured in factories using machines, rather than by hand in the home. |
| 38. Urbanisation | Many people moved to towns and cities to work in the factories. London grew from 1 million people in 1810 to 7 <br> million people by 1911, making it the largest city in the world. |
| 39. Raw materials | Deep coalmines were dug to provide enough coal to power steam engines. |
| 40. Transport | Canals and railways were developed to transport raw materials and manufactured goods around the country. |


| Timeline |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1. East India Company granted a Royal Charter $1600$ | 3. The First Fleet of 11 convict ships reaches 'Australia' $1788$ | 5. Victoria becomes Queen of the UK $1837$ | 7. The Great Exhibition is held in Hyde Park, London <br> 1851 | 9. Sir Walter Mildmay founded Emmanuel College in Cambridge 1858 | 11. British Army occupies Egypt $1882$ | 13. Death of Queen Victoria $1901$ |
| 1770 | 1820s-1832 |  | 1845 | 1857 | 1876 | 1899 |
| 2. Captain Cook claims 'Australia' for Britain | 4. Violent conflict between British colonists and Aboriginal Tasmanians which resulted in near-destruction of the Aboriginal Tasmanians |  | 6. The Irish Potato Famine begins | 8. The Indian Rebellion begins in Meerut | 10. Queen Victoria becomes Empress of India | 12. The start of the Boer War |


| Key People |  |
| :--- | :--- |
| 14. James Cook | British explorer, navigator and colonist who mapped 'Australia's' eastern coastline. |
| 15. Joseph Banks | Botanist on board the Endeavour who studied Australia's plants and wildlife. |
| 16. Robert Clive | Officer in the East India Company who became Governor of Bengal Province. |
| 17. Cecil Rhodes | Businessman and politician in southern Africa, and keen supporter of Empire. |
| 18. Mathinna | Young Aboriginal girl whose drawing has recently been discovered in the archives of the British Museum. Her story <br> reveals to us how Aborigines of 'Australia' experienced British colonialism in the 19th century. |
| 19. Rani Lakshmibai | Indian queen of the state of Jhansi, northern India, who led the rebellion against British rule of India in 1857. |
| 20. John Pope-Hennessy | British MP in the 19th century who was an Irish Catholic. He was an outspoken opponent of Britain's actions during <br> the Indian Rebellion but then later became a Governor of the British Empire in Mauritius. |


| 21. Aborigine | Nomadic hunter-gatherer population native to 'Australia' and <br> nearby islands. | 34. Irish Republican <br> Brotherhood | Secret organisation formed by lrish <br> nationalists. |
| :--- | :--- | :--- | :--- |
| 22. Admiral | Highest ranking naval officer, usually in command of a fleet. | 35. Indigenous | Originating in a particular place. |
| 23. Bengal | Wealthy province in northeast India, where the British built their <br> factory called Calcutta. | 36. Maharajas | Indian Princes who ruled their states in <br> partnership with the British Empire. |
| 24. Civil service | The permanent staff of a government, responsible for administering <br> the country. | 37. Mughals | Dynasty originally from Central Asia that ruled <br> much of India from the 16th to 19th century. |
| 25. Colony | A country or area under full or partial control of another country and <br> settlers from that country. | 38. Mutiny | Rebellion against authority, often soldiers or <br> sailors against their commanding officers. |
| 26. Dependent |  |  |  |
| colony |  |  |  | | A colony in which a small number of officials rule a large native |
| :--- |
| population. |

## Abstraction In Art: Abstract art is art that does not attempt to represent an accurate

depiction of a visual reality but instead uses shapes, colours, forms, and gestural marks to achieve its effect.

1. What is abstraction in art look like?
2. What is Cubism?
3. How did Picasso respond to the situation in Guernica with his Art?

The use of Abstraction by famous 20th Century artists


How do artists create abstract Art?


Roy Lichtenstein created the image of the bull in an abstract way; here are some examples of other images deconstructed to become 'abstracted from reality'.
The Guernica image above is a series of scenes showing the horror of war. How many can you find in the image? Picasso also painted Dora Marr's response to the bombing of Guernica. She is still recognisable as a 'Weeping woman'. Jean Du Buffet used monochrome colour to create a self portrait. Simple but highly effective!

## Exploring the Work of 21 st Century Artists: Clare Youngs



Clare Youngs is a collage artist, who makes colourful and playful artworks from cut paper. Each piece of paper used is hand painted or printed with textures and pattern work and then cut and pieced together to make the finished piece. Clare trained as a Graphic Designer and worked in the industry, in London design groups, before branching out into a more art-based career. Clare's work has a strong graphic feel about it, which directly stems from her background in design.
Pattern is also an important feature in many of her artworks. She uses pen and ink, paint, and printing methods to produce an endless variety of patterns to use. Clare will often print a texture over a pattern to add another layer and depth to the finished piece. Clare's work has a retro feel to it. Her love of mid-century design, especially textiles, and children's book illustration has been an influence when developing her own style. But really she is inspired by anything and everything!


All artists are inspired by nature. We will be doing some observational drawing using a variety of materials techniques and processes. We will be printing onto different papers to create texture for our response to Clare Youngs



Ruth Allen graduated in 1997 with a degree in textiles and illustration. She is currently based in Stafford where she works from her home studio and teaches locally at a Residential Arts Centre. Her work is based around the theme of both architecture and interiors. The main inspiration for the ways in which she develops techniques, processes and use of colour comes from the 1950s textile prints and interior design. Her interest in the 1950s has developed over the last ten years and the work of Lucienne Day has formed a vital component in the development of her own art practice.

We will be using Ruth Allen's work as inspiration for our own line drawings from our own locations.

## Design Technology

1 of 3
Cam Rotation

| Key Terms |  |
| :--- | :--- |
| Aesthetics | To describe how a product looks. |
| Customer | The person a product is designed for. |
| Environment | To consider how the product affects the nature. |
| Function | To describe how a product works. |
| Manufacture | To describe how a product is made. |
| ACCESSFM | Aesthetics / Cost / Customer / Environment / Safety / Size / <br> Function / Manufacture. |
| Linear | Moving in a straight line, in one direction. |
| Reciprocating | Moving in both directions of a straight line |
| Oscillating | Swinging back and forth in a regular rhythm. |
| Rotating | Moving in a circular motion. |
| Cam | A rotating part to, generally, create reciprocating movement. |
| Follower | A follower contacts the cam to create movement on top of <br> the cam. |
| Lever | A bar resting on a pivot used to move or lift an object. |
| Fulcrum | The pivot point in a lever. |
| Load | The object which is being moved. |
| Effort | The force being applied to a lever. |
| Class 1 Lever | Fulcrum in the centre of the lever. |
| Class 2 Lever | Load in the centre of the lever. |
| Class 3 Lever | Effort is in the centre of the lever. |
| $\mathbf{1 2 3 , ~ F L E ~}$ | How to remember the order of levers. FLE is what is in the <br> middle. |



50


|  | Tenon Saw | To cuts straight lines in wood. |
| :--- | :--- | :--- |
|  | Try Square | To cut a circular hole in timber, <br> polymers and metals. |
| To mark a 90-degree line on a |  |  |
| piece of timber. |  |  |



## Health and Safety Rules

Always tie long hair back.
No loose clothing when using machines.
Wear goggles on the pillar drill, disc sander and belt sander. Always wear an apron.
No running in the workshop.
Stay in your place on the workbench unless you are collecting tools or using machines.

Design Technology
2 of 3

Acrylic Phone Stand Rotation

| Key Terms |  |
| :--- | :--- |
| Polymer | Technical term for what we commonly call plastics. |
| Molecule | A group of atoms bonded together. |
| Polymer Chain | A chain of molecules found in all polymers. |
| Thermoforming | A polymer which can be reheated and reformed repeatedly. |
| Cross links | Connections between polymer chains. |
| Thermosetting | A polymer which cannot be reheated and reformed. |
| Raw material | The natural material from which a product is made. |
| Extracting oil | Drilling into the earth to remove oil. |
| Fractional distillation | Separating oil into different parts, including what is needed to <br> make polymers. |
| Moulding | Turning a polymer into a product shape. |
| Stock Form | How we buy polymers/plastics to use to make products at <br> school e.g. sheet, tubular, square profile. |
| PVA | Glue used to join timber or paper/board together. |
| Epoxy Resin | Glue used to join timber/metal/polymers together. |
| Solvent Cement | Glue used to join polymers together. |
| Contact Adhesive | Glue used to join timber/metal/polymers together. |



Solvent Cement is a very runny clear liquid that works by melting both edges of the Polymer that you want to stick Together. It is difficult to use precisely.

Tensol Glue has a very strong smell and is a very sticky, messy glue. It will stick most polymers together and will also stick wood to polymers. It must be used carefully as it is easy to get the glue all over the surface of the polymer.


A Vacuum Former uses heat just like a grill at home to heat up thermoplastics like Polystyrene. They are then stretched over a mould with a draft angle and the air is sucked out by vacuum.
The resulting shape is left to cool and removed from the mould. Vacuum formers can also blow air into a mould to create domes and other shapes.


| Key Terms |  |  |
| :---: | :---: | :---: |
| 1 | Health and Safety | Rules you should follow in the kitchen to keep you safe while cooking and preparing food. |
| 2 | Crosscontamination | When bacteria from raw meat is spread onto vegetables. Puts people at risk of food poisoning. Avoided by using different equipment to prepare and cook raw meat and vegetables. |
| 3 | The Eatwell Guide | The main source of nutritional information in the diet - five food groups: Fruit and vegetables, carbohydrates, protein, dairy and alternatives, oils and spreads. Gives food portion information to people. |
| 4 | Nutritional Values | The amount of nutrients - both macro (big) and micro (small) - that a given dish provides you with. |
| 5 | Macronutrients | Nutrients we supposed to consume in large amounts such as carbohydrates, proteins and fats. |
| 6 | Micronutrients | Nutrients we supposed to consume in small amounts such as vitamins and minerals, including calcium, vitamin $\mathrm{A}, \mathrm{B}, \mathrm{C}, \mathrm{D}, \mathrm{E}$ and K . |
| 7 | Raising Agents | Three types: Chemical (such as baking powder), biological (yeast) and mechanical (whisk) used to get air into food to change the characteristics. For example, yeast fermenting to release $\mathrm{CO}_{2}$ to help create air bubbles in bread and make it rise. |
| 8 | Time Plan | A plan for how you will allocate time to each step of a method in a recipe while cooking. |
| 9 | Enzymic Browning | When a food reacts with oxygen to make it brown. |
| 10 | Food Sources and Origins | Where a food comes from - the original place. Such as pork from a pig. |
| 11 | Seasonality and Food Miles | The distance a product has travelled to reach the destination it is cooked and eaten in. For instance, peaches bought from abroad to the UK because they're not seasonal. |


| Equipment for Cooking |  |  |
| :--- | :--- | :--- |
|  | Spatula | Used to combine, smooth, separate, or collect mixtures <br> or food during cooking or preparation. Different types <br> of spatulas are available. |
|  | Frying Pan | Used for different types of frying such as shallow frying, <br> stir fry, deep frying |
|  | Weighing Scale <br> and Measuring <br> Spoons | Used to measure the correct amount of solid food and <br> liquid |



1 of 6
Live Theatre Evaluation

| Question areas | 1. Evaluate - Good and bad. Say whether the production element you are writing ab <br> 2. Analyse - Identify the techniques that were used and explain their intended impac <br> 3. Describe - Clearly and concisely describe the moment as it happened on stage so | t was successful in communicating the intended effect/impact or not n the audience (using drama key terms) <br> e examiner can visualise it in their mind |
| :---: | :---: | :---: |
| Key terms - <br> Production <br> elements | 4. | 5. Semiotics - The acting and/or design can communicate abstract concepts, themes and symbols. As an example, a design could include a large, dead tree to suggest the themes of death in a play <br> 6. Design elements - Set/props, lighting, costume, sound (music and sound effects, live and/or recorded) <br> 7. Character traits/aspects - Characterisation, physical skills/movement, vocal skills/ voice, use of space/proxemics <br> 8. Staging - Selecting a performance space, adapting/modifying the performance space designing ideas for a play. Includes ideas for all design elements <br> 9. Performance space - Thrust, in the round, traverse, proscenium arch, end on, apron, black box, promenade, site specific <br> 10. Acting - Vocal skills, physical skills, characterisation, use of stage space/ proxemics, interaction with other characters, handling of props. Using all the key terms write notes on three key moments <br> 11. Costume - Type, period, fabric, colour, fit and condition, accessories, hair, makeup, masks <br> 12. Set - Type, period, size and scale, colours, entrances and exits, levels, ramps, revolves, drapes, curtains, flats, backdrops, projections/multimedia <br> 13. Lighting - Types, colours, angles and positions, special effects, transitions, blackouts, fades <br> 14. Sound - Types, music, volume/amplification/intensity, direction, live or recorded, positioning, sound effects |


| Research the Play |  |  |  |
| :---: | :---: | :---: | :---: |
| 15. Plot | The storyline of a play | 18. Context | When and where the play is set |
| 16. Character | A person in the narrative/plot | 19. Possible intentions of the playwright | Why the playwright wrote the play what message did they want to convey to an audience? |
| 17. Theme | An idea or message that the writer highlights during the play | 20. Original performance conditions | When and where was the play first performed? |


| Making Notes About the Performance |  |  |  |
| :--- | :--- | :--- | :--- |
| 21. Director | Responsibility for the practical and creative interpretation of a <br> dramatic script | 23. Key scenes | As well as the beginning and end choose three key scenes to make notes on. You <br> should consider the climax of the play, tension, something is revealed or changes, <br> dramatic moments |
| 22. Artistic vision/ <br> intention | What the director wants the audience to think, feel or learn by <br> watching the play | 24. Tension/Climax | When the audience are waiting for something to happen and the scene builds to <br> a moment of climax. (Silence, stillness, sudden, slow, staring or pausing used by the <br> actor.) Design elements and acting are used to create tension in the play |


| Characterisation |  |  |  |
| :--- | :--- | :--- | :--- |
| 25. Motivation | What a character wants or needs in a scene | 38. Naturalistic | Lifelike/believable |
| 26. Style | The way in which something is performed e.g. <br> naturalistically | N. Stylised | Non-naturalistic, an abstract style |
| 27. Subtext | The unspoken meaning, feelings and thoughts <br> beneath the lines | 39 |  |


| Physical Skills and Vocal Skills |  |  |  |
| :--- | :--- | :--- | :--- |
| 28. Movement | Changing positions or moving across the space | 40. Pitch | The vocal register - high or low |
| 29. Posture | The way they stand and hold themselves | 41. Pace | How quickly or slowly something is done |
| 30. Gesture | Movements of hands, head, leg usually convey <br> a message/meaning | 42. Pause | A hesitation or silence |
| 31. Facial <br> expressions | The feelings (or lack of them) shown on the face | 43. Emphasis | Stressing or highlighting something |
| 32. Use of stage <br> space | How an actor moves around the space, using <br> levels, direction | 44. Infection | Saying a word in a particular way to stress <br> its meaning |
| 33. Interaction/ <br> Proxemics | How a character reacts to other characters. <br> Proxemics mean moving towards or away from <br> another character and the distance between <br> the characters | 45. Accent | A way of pronouncing words associated <br> with a country, region or social class |
| 34. Handling of props | How a prop is handled during a performance | 46. Volume | Degree of loudness |
| 35. Choreography/ <br> stage fights | Setting movements to create meaning/blocking <br> movements to create the impression of violence | 47. Delivery | How dialogue is said to convey meaning |
| 36. Stage business | Minor movements or blocking that an actor <br> does to establish a situation (reading a book/ <br> closing a window) | 48. Emotional range/tone | Feelings are expressed by the way the <br> line is said |
| 37. Pace and pause <br> of movement | The speed of the movement and use of stillness <br> to convey a meaning, feeling or atmosphere | 49. Phrasing | Use of hesitation, metre and/or grouping |


| 50. Backlight | Light projected from upstage | 60. Blackout | No lighting |
| :--- | :--- | :--- | :--- |
| 51. Barndoors | Metal flaps used to shape the light | 61. Crossfade | Change from one state to another |
| 52. Flood/wash | Unfocused wash of light / light covers the whole <br> stage | 62.Fade/snap | Light slowly on and off/quickly on and off |
| 53. Floor lighting | Light on a low stand (creates shadows) | 63. Colour filter | Plastic used to alter the colour |
| 54. Followspot | Powerful lantern that follows the actor around <br> the stage | 64. Focus | How sharp or defined the light is |
| 55. Footlights | Low lights downstage | 65. Fogger | Creates smoke |
| 56. Fresnel | A lantern with a soft beam | 66. Gobos | Creates patterns of light |
| 57. General cover | Light on the acting areas | 67. Pyrotechnics | Creates fire effect |
| 58. Pinspot | Tightly focused on a small area | 68. Smoke and haze |  |
| machine |  |  |  |


| 70. Abstract | Not realistic | 75. Acoustics | Quality of sound |
| :--- | :--- | :--- | :--- |
| 71. Motivational sound/ <br> sound effects | Effect required by the script (gunshots) | 76. Fade/snap | Gradual/sudden off or on |
| 72. Musical theme or <br> motif | Recurring section of music | 77. Soundscape | Build-up of sounds to create an <br> atmosphere or environment |
| 73. Naturalistic | Realistic sounds | 78. Reverb | Echoing |
| 74. Recorded or live <br> sound | Prerecord or happens during the <br> performance |  |  |

## Drama <br> 4 of 6

## Private Peaceful by Michael Morpurgo (2003)

1. Plot - Set in the fields of Devon and the WWI battlefields of Flanders, two brothers fall for the same girl while contending with the pressures of their feudal family life,
the war, and the price of courage and cowardice.
2. Structure - The play starts at the end and uses flashback to show the events in Tommo's life.
3. Genre is a Historical war play - A play that takes its inspiration from a historical event $|$| Question areas | Context/social/cultural/historical; aspects of the character; the way the actor uses movement and voice; staging |
| :--- | :--- | :--- | 5 of 6

## Private Peaceful by Michael Morpurgo (2003)

## Key characters - Key lines and stage directions that impact on the character

| 16. Tommy "Tommo" Peaceful | Narrator \& protagonist. Kind \& fiercely loyal to brothers Charlie \& Big Joe \& their mother, Mrs. Peaceful. Struggles with feelings of inadequacy \& guilt over his father's death. Hesitant to sign up to fight in WWI but does so to prove his bravery - he is 18 at the start of the play but joins up when he is 17 . Loves Molly. When Charlie dies Tommo looks after his nephew \& Molly after the war. |  |
| :---: | :---: | :---: |
|  | Recalling his father's death | "He is on his back, his face turned away from me as if he doesn't want me to see. One arm is outstretched towards me, his glove fallen off, his finger pointing at me" |
|  | Recalling what prompted him to sign up. | "Suddenly someone prodded me hard in the small of my back. It was a toothless old lady pointing at me with her crooked finger. "Go on, son," she croaked. "You go and fight. It's every man's duty to fight when his country calls, that's what I say. Go on. Y'aint a coward, are you?" |
|  | Tommo talking to Charlie before he is executed by the British Army. | It is the moment. I have to do it now. It is my last chance. I tell him about how Father had died, about how it had happened, what I had done, how I should have told him years ago, but had never dared to. He smiles. "I always knew that, Tommo. So did Mother. You'd talk in your sleep. Always having nightmares, always keeping me awake about it, you were. All nonsense. Not your fault. It was the tree that killed Father, Tommo, not you." |
|  | Recalling Charlie's death | "They tell me he walked out with a smile on his face as if he were going for an early-morning stroll. They tell me that he refused the hood, and that they thought he was singing when he died." |
| 17. Charlie Peaceful | Fiercely loyal and brave. Always sticks up for Tommo \& always does what is right. Hated by Sgt Hanley who didn't like that Charlie wasn't afraid to stand up to him. Bravely rescues Cpt Wikes. Even when being executed by fring squad, he has a smile on his face. |  |
| 18. Molly | Childhood friend of Tommo, Charlie \& Big Joe. Both Tommo \& Charlie love her but she eventually marries Charlie \& has his baby. Thrown out of her parent's home when they find out she is pregnant. Goes to live with Mrs. Peaceful. |  |
| 19. Sergeant Hanley | One of the antagonists. Malicious and cruel to the men serving in the army. Orders Charlie's execution when Charlie refuses to leave injured Tommo on the battlefield. |  |


| 20. Characterisation - The act of changing voice, body language, movement, gesture etc. when in role. The acłor must use their skills to portray a characłer consistently throughout their performance. |  |  |
| :---: | :---: | :---: |
| Movement | 21. Pace - fast or slow <br> 22. Gesture - a movement of part of the body, especially a hand or the head, to express an idea or meaning <br> 23. Gait - walk | 24. Posture - the position in which someone holds their body <br> 25. Facial expression - usually links to an emotion. Tells the audience the characters feelings <br> 26. Eye contact or eye line - where the actor looks |
| Voice | 27. Pace - fast or slow <br> 28. Pause - an actor stops talking for a moment/beat during a line. <br> 29. Pitch - high or low <br> 30. Tone - reveals an emotion i.e. angry, scared | 31. Volume - loud or quiet <br> 32. Accent - shows where someone is from or gives clues as to their upbringing <br> 33. Emphasis - the stress on individual words that makes them stand out |


| Drama |
| :---: | :---: |
| 6 of 6 |$\quad$ Private Peaceful by Michael Morpurgo (2003)

## Rehearsal

| 34. Performance <br> space | End on - One audience side. This performance space is similar to a proscenium arch stage. The stage is at one end and the audience face it <br> directly. In this type of stage there is no arch around the edge of the stage to 'frame' it. <br> In the round - Audience are around the performance space <br> Traverse - Two audience sides. The action takes place between the audience. The stage is like a catwalk in a fashion show. |
| :--- | :--- |
| 35. Blocking | Planning the space and the actor's movement |


| 36. Design elements: key words: Lighting design; sound design; costume design; set design |  |
| :--- | :--- |
| 37. Themes/symbols | The design can also communicate abstract concepts, such as themes and symbols. As an example, a design could include dramatic red <br> backlight lighting barbed wire with a body hanging from it to suggest the context and themes of Ww 1 and the death in the play. |
| 38. Style | Designs can be naturalistic, this would aim to create the impression of reality through realistic-looking lighting, sound and set items. A play <br> performed in a minimalistic style would use just a few, simple design elements to represent a setting and create an atmosphere for the <br> audience. |
| 39. Colour | Colour can be used within set design to symbolise various ideas on stage. For example, for this play we could include dull greys and a <br> monochromatic palette single colour, this could enhance the sad atmosphere and dark themes in the play. |
| 40. Condition | The condition of a design can reveal important information about the setting or a character's circumstances. For example, shabby, dented <br> and blood covered Wwl helmet might suggest the character has been in a battle and seen death first-hand. |
| 41. Location | The set can tell the audience where and when the scene takes place. |
| 42. Symbolism | Represents a message on stage. |

## Describing Music Using 'Mad T-Shirt'

| Melody | Articulation Dynamics | Time/Tempo | Structure |
| :---: | :---: | :---: | :---: |
| Register- high or low <br> Range - wide or narrow <br> Sequence Ascending/ <br> descending <br> Scalic or broken chord <br> movement <br> Steps or leaps <br> Ornaments <br> Melodic ostinato/riff | Strummed Pianissimo <br> Finger-picking Piano <br> Sustained Mezzopiano <br> Stab Mezzoforte <br> Staccato Forte <br> Legato Fortissimo <br> Slurred Crescendo <br> Pizzicato/arco Diminuendo <br> Accents  | Number of beats in a bar Tempo <br> Accellerando/ rallentando | How many sections <br> What order <br> Which sections are the same <br> Ternary form: ABA <br> 12-bar blues <br> Pop song structure: intro/verse/ chorus/bridge/ outro |
| Harmony | Instruments | Rhythm | Texture |
| Major or minor Inversions Consonant or dissonant Key change Added notes in chords Harmonic rhythm Drone/pedal note 'Blue' note | Strings: violin/viola/cello/double bass/harp <br> Woodwind: flute/oboe/clarinet/bassoon/piccolo <br> Brass: trumpet/horn/ trombone/tuba <br> Percussion: timpani/snare/ cymbals (and many others) <br> Voices: soprano/alto/tenor/bass <br> Keyboards: piano/harpsichord/ organ/synthesiser <br> Rock/pop: electric/acoustic guitar/ bass guitar, drumkit, loops/samples | Duration: long or short notes Even or uneven rhythms <br> Dotted rhythms <br> Triplets <br> Syncopation <br> On a particular beat of the bar <br> Rests/pauses <br> Rhythmic ostinato/riff | Note or chord <br> Bass/chords/melody <br> Thick/thin <br> Simple/complex <br> Melody + accompaniment <br> Countermelody <br> Parallel/contrary motion <br> Unison <br> Imitation <br> Call \& response |


| The Elements of Music RECAP |  |
| :--- | :--- |
| 1. Pitch | How high or low a piece of music or a sound is |
| 2. Tempo | Tempo is how fast or slow the music is played |
| 3. Dynamics | Dynamics is how loud or quiet the music played |
| 4. Rhythm/Duration | Duration/rhythm means how long or short a note is. |
| 5. Texture | Texture describes the different layers of sound |
| 6. Timbre/Sonority | The sound quality of an instrument or voice |
| 7. Articulation | How the music/notes are played |
| 8. Silence | In music these are the RESTS. No sound |



## Keyboard \& Music Notes

| A. Keywords |  |
| :--- | :--- |
| 1. Key/Tonality | The scale on which a passage of music is based. It is <br> named after the bottom note of the scale. |
| 2. Scale | A set of consecutive notes that go up or down in order |
| 3. Accidentals | Sharps or flats |
| 4. Sharp | \# the black key to the right of the note |
| 5. Flat | b The black key to the left of the note |
| 6. Natural | 4 A sign which cancels our any previous sharp or flat |
| 7. Major Scale | Tonality which sounds happy |
| 8. Minor scale | Tonality which sounds sad |
| 9. Chromatic | Music with lots of accidentals |



E. Finger numbers for playing the keyboard


1. Djembe Instruments

| Keywords |  |
| :--- | :--- |
| 1. Percussion | Instruments that you hit to create sound |
| 2. Call and Response | A texture where performer(s) do a call and others respond |
| 3. Repetition | Repeating of a rhythm/motif |
| 4. Cyclic Rhythm | Rhythm that repeats over and over |
| 5. Ostinato | Repeating musical motif (rhythm or melody) |
| 6. Polyrhythm | Two or more simultaneous rhythms |
| 7. Cross rhythm | Type of polyrhythm where the rhythms don't easily slot together |
| 8. Master drummer | The lead drummer (who performs the call) |
| 9. Carnival | A street samba performance |
| 10. Clave rhythm | Syncopated rhythm performed by claves in Samba music |
| 11. Groove | A continuous and catchy rhythm |


| Music of The Indian Subcontinent |  |
| :--- | :--- |
| 1. Guru | Master performer |
| 2. Improvise | Making up music during a performance, rather than referring to <br> a pre-existing melody or part. |
| 3. Raga | A set of pitches, similar to a scale. |
| 4. Drone | A repeated note or set of notes repeated throughout a piece. |
| 5. Tala | A cycle of beats that repeat. |
| 6. Alap | The opening section of a piece of Indian classical music. |
| 7. Chaal | The fundamental rhythm used in bhangra, played on the dhol. | Year 8 Music

## 1. Origins

Enslaved African people brought their musical traditions with them when they were transported to work in the North American colonies. These work songs were sung rhythmically in time with the task being done. Their songs were passed on orally (by word of mouth) and were never usually written down. They used call and response where phrases from a lead singer were followed by the others. Early styles of Blues were known as country blues and usually had a solo singer accompanied on guitar or piano sometimes with added harmonica or drums.

| Using Email Professionally |  |  |
| :---: | :---: | :---: |
| 2. 12-bar blues | The 12-bar blues is the name of the structure used in blues music. It is 12 chords, each lasting 1 bar. Roman numerals are used to label the chords, where I means chord 1 in the scale, IV means 4 etc. | $\begin{aligned} & I-I-I-I \\ & I V-I V-I-I \\ & V-I V-I-I \end{aligned}$ |
| 3. Chord | A chord is multiple notes played together at the same time. A chord using three notes is also called a triad. Blues music only uses 3 chords which are played at the start of every bar. |  |
| 4. Improvisation | When music is made up 'on the spot' |  |
| 5. Blues Scale | The blues scale is a certain selection of notes that have been put together to sound 'bluesy'. The scale is often used to create the improvisation. |  |
| 6. Walking Bass | The walking bass is the bassline of any Blues song. This is usually played by the double bass or bass guitar. The tempo of the bass line should be steady, which is why it is called the "walking" bass |  |
| 7. Call and Response | A performer plays/sings a 'call' and everyone in the ensemble 'responds' |  |


| Instruments |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 8. The rhythm section |  |  | 9. The Frontline |  |
|  | 11 | $12$ | $13$ | 14 <br> Etta James |
| Drum Kit <br> Performs the rhythms and pulse | Double Bass, Bass Guitar Perform the bassline (often a walking bass) | Guitar, Piano Perform the chords | Saxophone, Trumpet Perform the melodies and improvise | Singer(s) <br> Perform the melodies and lyrics |

Computing 1 of 3

## Core knowledge

| Using Email Professionally |  |
| :--- | :--- |
| 1. Inbox | Where a user's emails are received. |
| 2. Email address | Identifies the person/company that an email will be sent to. |
| 3. Subject | A short description of what the email is about. Should be included in all emails. |
| 4. Greeting | A formal word/phrase to start the email, e.g. 'Dear...' |
| 5. Body | The actual message contained in the email. |
| 6. Sign-off | A formal word/phrase to end the email, e.g. 'Kind regards'. |
| 7. CC | Used to add more email addresses that the email will be sent to. |
| 8. Reply | Used to respond to an email. |
| 9. Forward | Used to send the same email to another address without having to write the email again. |
| 10. Spam | Where unwanted/junk emails are kept. |


| Using Microsoft Word and Powerpoint |  |
| :--- | :--- |
| 11. Microsoft Word | A program used to create documents. |
| 12. Powerpoint | A program used to create slideshows. |
| 13. Document | A piece of writing created electronically, e.g. a letter. |
| 14. Slideshow | A presentation created using one or more slides made up of text and <br> images. |
| 15. Shortcut | Pressing two or more keys on the keyboard to do something, e.g. Ctrl C <br> for Copy |
| 16. Copy (Ctrl C) | When used with Paste, used to copy text or an image from one place to <br> another. |
| 17. Paste (Ctrl V) | When used with Copy, can place an image or text into a new place in a <br> document or presentation. |
| 18. Bold (Ctrl B) | Used to make text stand out by making it slightly bigger. |
| 19. Italic (Ctrl I) | Used to make text stand out by tilting it forward. |
| 20. Underline (Ctrl U) | Used to make text stand out by putting a line under it. |
| 21. Font | The style of text on the screen. Common ones include Calibri, Arial, and <br> Times New Roman. |
| 22. Font size | The size of text on the screen. |
| 23. Animation | A way of making text and images appear or disappear in Powerpoint. |


| E-Safety |  |
| :--- | :--- |
| 24. Social |  |
| Engineering | A range of methods <br> to try and manipulate <br> people into handing <br> over personal details. |
| 25. Phishing | A message that tries to <br> get your personal details <br> by getting you to click <br> on a link. |
| 26. Blagging | Making up a story to try <br> to get personal details. |
| 27. Shoulder |  |
| Surfing | Looking over someone's <br> shoulder to get details. |
| 28. Virus | A harmful program that <br> tries to damage your <br> device |
| 29. Anti-Virus | A program that protects <br> your device from viruses. |

## Computing

2 of 3

## Core knowledge

| Computer Systems |  |  |  |
| :---: | :---: | :---: | :---: |
| 30. Computer system | An electronic device that can be programmed to perform instructions and store data. | 43. FDE cycle | Fetch-Decode-Execute cycle. Performed by the CPU to constantly retrieve and execute instructions. |
| 31. Generalpurpose computer | A computer designed to do many tasks, e.g., phone, laptop. | 44. Operating System | Most important software on a computer. Can manage all software and hardware on a computer. |
| 32. Embedded computer | A computer designed for a single task, e.g., calculator, washing machine. | 45. Motherboard | Connects all the components of a computer together. |
| 33. Program | A set of instructions written for a computer to perform. | 46. Graphics card (GPU) | Handles graphics for the computer. Primarily used for gaming, video editing, and animations. |
| 34. Hardware | Components of a computer you physically touch. | 47. Power Supply | Supplies electricity to the computer. |
| 35. Software | A set of programs on a computer. | 48. Cooling | Prevents the CPU and other components from overheating. |
| 36. Input device | A device that can input data from the user into the computer. | 49. Control Unit | Controls the FDE cycle inside the CPU. |
| 37. Output device | A device that can output data from a computer back to the user. | 50. Arithmetic Logic Unit (ALU) | Performs basic maths and logic decisions inside the CPU. |
| 38. Processor (CPU) | Processes data and instructions from programs. |  | Stores 1 instruction or piece of data during the FDE |
| 39. Memory (RAM) | Stores data and instructions from programs. |  | cycle inside the CPU. |
| 40. Storage (Hard drive) | Stores data, software, and files created by the user. | 52. Monitor | The screen of a computer. |
| 41. Volatile | When a device needs constant power to store data. | 53. Keyboard | Used to type text and instructions into the computer. |
| 42. Non-volatile | When a device can keep data stored even when the computer switches off | 54. Mouse | Used to point and click buttons on the screen. |


| Programming |  |  |  |
| :--- | :--- | :--- | :--- |
| 55. Algorithm | A sequence of instructions to complete a task. | 62. Python | An example of a programming language. |
| 56. Sequence | Putting instructions in the correct order in an algorithm or program. | 63. Syntax | The rules in a programming language to write <br> instructions and use symbols correctly. |
| 57. Condition | A statement, that can be checked by a program, that is True or <br> False, e.g., is the time of day 1PM? | 63. |  |
| 58. Selection | When a program performs an instruction based on a condition. | 64. Variable | Can store data in a program and can always <br> change value. |
| 59. Multi-branch selection | When a program performs an instruction based on two or more <br> conditions. | 65. Constant | Can store data in a program and can never <br> change value. |
| 60. Iteration | When a program repeats instructions based on a condition. | 66. Function | Special keywords that do a specific job in a <br> programming language. |
| 61. Programming language | The language used to write instructions in a program. | 67. Integer | Whole number |

## Computing

 3 of 3
## Core knowledge

| Python knowledge | Meaning | Example |
| :---: | :---: | :---: |
| Variable assignment | Creating a variable and giving it a value. | celsius = 25 |
| print() function | Displays a message. | print("Hello") |
|  | Display multiple messages. | print("Hello", "World") |
|  | Display a variable (no speech marks needed) | $\begin{aligned} & \text { name ="Bob" } \\ & \text { print (name) } \end{aligned}$ |
|  | Display messages and a variable. | ```name = "Bob" print("Hello", name, "how are you?")``` |
| Variable modification | Changing the value of a variable. | celsius = celsius + 32 |
| input () function | Lets the user type something in. | ```print("Enter a name") name = input()``` |
| int () function | Converts a value or an input from the user into an integer | print("Enter a number") <br> number = int(input()) |
| if . . . statement (Selection) | Can perform an instruction if a condition is true | ```if number > 5: print("Greater than 5")``` |
| else... statement | Can perform an instruction when a condition is false. Used after if block | ```if number > 5: print("Greater than 5") else: print("Not greater than 5")``` |
| elif... statement (Multi-branch selection) | Can perform an instruction if a different condition is true. Used after if block | ```if number > 5: print("Greater than 5") elif number < 5: print("Less than 5") else: print("Equal to 5")``` |
| while... statement (Iteration) | Can perform repeated instructions if a condition is true. | ```while number < 0: print("Number cannot be less than zero") number = int(input())``` |

## Où es-łu allé(e) en vacances l'année dernière?

| Pendant les vacances, je suis allé(e) en <br> (During the holidays I went to) <br> L'année dernière on est allés en <br> (Last year we went to) | Allemagne <br> Égypte <br> Écosse <br> Espagne <br> France <br> Grande-Bretagne <br> Italie <br> Turquie | en avion (by plan) en bateau (by boat) en train (by train) en voiture (by car) | C'était ennuyeux (it was boring) <br> C'était amusant (it was fun) <br> C'était génial (it was great) |
| :---: | :---: | :---: | :---: |
| Je suis resté(e) dans (I stayed in) On est restés dans (we went to) | un hôtel (a hotel) un camping (a campsite) un appartement (an appartment) | au bord de la mer <br> (by the sea) à la montagne (in the mountains) à la campagne (in the countryside) |  |


| Comment as-łt voyagé? |  |  |  |
| :--- | :--- | :--- | :--- |
| J'ai voyagé <br> (I travelled) | en avion <br> (by plane) <br> en bateau <br> (by boat) <br> en train <br> (by train) <br> en voiture <br> (by car) <br> à vélo <br> (by bike) | et c'était rapide <br> (and it was fast) <br> et c'était lent <br> (and it was slow) <br> et c'était <br> dangereux <br> (and it was <br> dangerous) | et c'était sur <br> (and it was safe) <br> et c'était bon <br> marché <br> (and it was cheap) <br> et c'était cher <br> (and it was <br> expensive) |
| Je préfère <br> voyager <br> (I prefer to <br> travel) | parce que c'est... <br> (because it is) |  |  |

## Qu'est-ce que łu as fait pendant les vacances?

| Sentence starter | Activity in the perfect tense |  |  | opinion |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Le weekend dernier Last weekend <br> Le mois dernier Last month <br> L'année dernière <br> Last year <br> D'abord <br> First of all <br> ensuite / puis then <br> après afterwards <br> finalement finally | J'ai... (I ...) <br> On a... (We...) | nagé dans la mer/la piscine <br> (swam in the sea/the swimming pool) <br> visité un parc d'attractions <br> (visited a theme park) <br> mangé des glaces <br> (ate ice cream) <br> bronzé <br> (sunbathed) <br> acheté des baskets <br> (bought some trainers) <br> fait du shopping <br> (went shopping) | fait de la plongée sous-marine (went scuba-diving) <br> pris des photos (took photos) <br> joué au tennis (played tennis) <br> regardé des clips vidéo (watched video clips) <br> écouté de la musique (listenined to video clips) | et c'était (and it was) | vraiment (really) <br> très (very) <br> assez <br> (quite) <br> un peu (a bit) | amusant (fun) <br> génial <br> (great) <br> délicieux <br> (delicious) <br> relaxant <br> (relaxing) <br> intéressant <br> (interesting) <br> ennuyeux <br> (boring) <br> nul <br> (rubbish) |

## Qu'est-ce que łu fais normalement pendant les vacances?

| Normalement Normally je vais | en Allemagne en Grèce au Portugal <br> en Écosse en Albanie au Maroc <br> en Espagne En Roumanie aux États-Unis | avec mes ami(e)s avec ma famille with my friends / my family |
| :---: | :---: | :---: |
| Pendant les vacances, During the holiday <br> En général, Generally | Je visite le musée / le parc d'attractions I visit the museum / the amusement park | parce que <br> c'est relaxant <br> / divertissant <br> / rigolo / <br> passionant <br> / ennuyeux <br> - because <br> it's relaxing / <br> enjoyable / <br> funny / exciting <br> / boring |
|  | Je nage dans la mer ou dans la piscine / je bronze / je fais du surf - I swim in the sea or the swimming pool / I sunbathe / I surf |  |
|  | Je fais du shopping / je prends des photos / je joue aux jeux vidéo - I go shopping / take photos / play video games |  |
|  | Je visite le musée / le parc d'attractions I visit the museum / the amusement park |  |

Qu'est-ce que tu voudrais faire pendant les vacances?

| Activity in the conditional tense |  | Opinion |  |
| :---: | :---: | :---: | :---: |
| Je voudrais <br> (I would <br> like) <br> J'aimerais vraiment <br> (I would really like) <br> C'est mon rêve de (It's my dream to) | visiter une île tropicale <br> (to visit a tropical island) <br> faire un tour du monde (to travel the world) <br> faire une expédition à la montagne <br> (to go on an expedition in the mountains) <br> faire un safari en Afrique (to go on safari in Africa) <br> Monter la Tour Eiffel (†o climb the Eiffel Tower) voir les Chutes de Niagara ( $\dagger$ o see Niagra Falls) passer un mois en Australie (to spend a month in Australia) <br> Nager avec des dauphins/requins (to swim with dolphins/sharks) | car ce serait (because it would be) | amusant <br> (fun) <br> génial <br> (great) <br> formidable <br> (amazing) <br> inoubliable <br> (unforgettable) <br> incroyable <br> (incredible) |


| Qu'est-ce que tu aimes faire? |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Opinion verb |  | Infinitive verb <br> jouer <br> to play/playing <br> manger <br> to eat/eating <br> écouter <br> to listen/listening <br> regarder <br> to watch /watching <br> aller <br> to go/going <br> faire <br> to do/doing <br> to go/going | Complement |  | Opinion |  |
| Normalement Normally <br> En général In general | je préfère <br> I prefer <br> j'adore <br> llove <br> j'aime <br> \| like <br> je n'aime pas <br> I do not like | je déteste I hate Je veux I want Je voudrais I would want J'aimerais I would like |  | au tennis tennis <br> au basket basketball aux jeux video videogames au restaurant at the restaurant avec ma famille with my family de la musique music des films sur netflix movies on netflix des dessins animés cartoons | au cinéma to the cinema <br> au restaurant to the restaurant au bowling bowling les magasins/du shopping shopping du vélo/de la natation cycling/swimming | car c'est (because it is) | amusant amusing / fun intéressant interesting génial Great relaxant relaxing barbant Boring ennuyeux boring nul rubbish |

## Translation - Sentence Builders

## Que fais-łu pendant ton temps libre?



4 of 11

## Translation - Sentence Builders

| Qu'est-ce que tu dimes regarder? |  |  |  |  |  |  | Masculine plural |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| J'adore <br> (I love) <br> J'aime <br> (I like) <br> J'aime regarder <br> (I like to watch) | Je regarde (I watch) mais je n'aime pas... (but I don't like) mais je déteste... (but I hate) | les films fantastiques (fantasy films) les films d'arts martiaux (martial arts films) | les films d'action (action films) les dessins animés (cartoons) | parce qu'ils sont (because they are) | divertissants (entertaining) Intéressants (interesting) | amusants (funny) Ennuyeux (boring) |  |
|  |  | les films de science-fiction (sci-fi films) les films d'horreur (horror films) | les westerns (westerns) les comédies (comedies) | parce qu'elles sont (because they are) | divertissantes (entertaining) Intéressantes (interesting) | amusantes <br> (funny) <br> Ennuyeuses (boring) | Feminine plural |
| Mon acteur préféré c'est... (my favourite actor is...) |  |  |  | parce que'il est (because he is) | intelligent (intelligent) | Beau (handsome) | Masculine singular |
| Mon actrice préférée c'est... (my favourite actress is...) |  |  |  | parce que'elle est (because she is) | intelligente (intelligent) | belle (beautiful) | Feminine singular |
| Mon film préféré c'est... (my favourite film is...) |  |  |  | parce que c'est (because it is) | Divertissant (entertaining) Intéressant (interesting) | amusant (funny) Ennuyeux (boring) | Masculine singular |


| Quelle sorłe de musique écoułes-łu? |  |  |  | Feminine singular |
| :---: | :---: | :---: | :---: | :---: |
| Opinion | Music genre | connective | adjective |  |
| J'ai une passion pour (I'm passionte about) J'adore J'aime Je préfère Je n'aime pas Je déteste | la musique pop la musique électronique la musique classique le rap/le rock/le métal le reggae/le hip-hop | parce que c'est (because it is) | original <br> relaxant <br> génial émouvant <br> (moving) <br> branché <br> agaçant  <br> (trendy) (annoying) <br>  nul <br>  (rubbish) |  |
| Je (ne) suis (pas) fan (I'm not a fan of) J'écoute Je n'écoute pas | de la musique pop de la musique électronique de la musique classique du rap/du rock/du métal du reggae/du hip-hop | parce que | ça me rend triste (it makes me sad) ça me rend heureux/heureuse (it makes me happy) |  |
| Ma chanteuse préférée c'est... (my favourite singer is...) |  | parce qu'elle est (because she is) | originale  <br> formidable incroyable <br> belle  |  |
| Mon chanteur préféré c'est... (my favourite singer is...) |  | parce qu'il est (because he is) | original incroyable <br> formidable beau | Masculine singular |

## Translation - Sentence Builders

| Quelle sorte de musique écoutes-łu? |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Activity in the perfect tense |  |  | Opinion |  |  |
| Le weekend dernier Last weekend <br> Samedi dernier Last Saturday <br> Dimanche dernier Last Sunday | J'ai... <br> (I ...) <br> On a... <br> (We...) <br> Je suis allé... <br> (I went...) <br> On est allés... <br> (We went...) | mangé au restaurant (ate at a restaurant) fait du shopping (went shopping) fait du vélo (went cycling) <br> au centre sportif (to the sports centre) au parc (to the park) au cinéma (to the cinema) | joué au tennis (played tennis) regardé une série (watched a series) écouté de la musique (listened to music) <br> au bowling (bowling) A la piscine (to the swimming pool) | et c'était (and it was) | vraiment <br> (really) <br> très <br> (very) <br> assez <br> (quite) <br> un peu (a bit) | amusant (fun) génial (great) délicieux (delicious) relaxant (relaxing) intéressant (interesting) ennuyeux (boring) nul (rubbish) |


| Vocabulary: Comment est ta routine? |  |  |  |
| :---: | :---: | :---: | :---: |
| Sentence Starter | Verb | Connective | Verb |
| Le matin In the morning <br> À huit heures du matin At 8am <br> Le soir In the evening <br> À neuf heures du soir At 9pm | je me réveille I wake up je me lève I get up elle s'habille she gets dressed il se brosse les dents he brushes his teeth nous nous lavons we wash <br> je mange avec ma famille I eat with my family nous regardons la télé We watch TV | et puis and then <br> et après ça and after that | je prends le petit-déjeuner I have breakfast je vais au collège I go to school j'étudie sur l'ordinateur I study on the computer <br> je me douche I shower je me couche I go to bed |

## Translation - Sentence Builders

| Qu'est-ce que tu manges? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Verb |  | Noun |  | Reason |
| Normalement <br> Normally <br> Pour le petit-déjeuner <br> For breakfast <br> Pour le déjeuner <br> For lunch <br> Pour le dîner <br> For dinner <br> De temps en temps from time to time <br> Souvent <br> Often <br> Rarement <br> Rarely | je mange l eat <br> je prends I have <br> je bois I drink | un sandwich a sandwich <br> du poulet some chicken du riz some rice du jus de fruit some fruit juice du chocolat some chocolate du gâteau some cake de la soupe some soup de la salade some salad de la dinde some turkey de la pizza some pizza | de l'eau some water <br> des pâtes some pasta <br> des frites some chips <br> des boissons gazeuses some fizzy drink <br> des légumes some vegetables <br> des jus de fruits some fruit juice | parce que car | c'est délicieux <br> it is delicious <br> c'est sucré = <br> it is sweet/sugary <br> c'est salé = <br> it is salty <br> c'est bon pour la santé = <br> it is good for your health <br> c'est sain = <br> It's healthy <br> c'est malsain = <br> It's unhealthy |


| Où avez-vous mal? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Time Phrase | Activity | Therefore / So | Connective |  | Exclamation |
| Hier Yesterday <br> La semaine dernière Last week <br> Le weekend dernier Last weekend | J'ai joué au foot/basket I played football / basketball <br> J'ai joué aux jeux vidéos I played videogames | donc <br> Therefore | J'ai mal au ventre /bras/dos/genou J'ai mal à la jambe/ gorge/tete J'ai mal aux pieds/épaules/dents |  | Quel désastre! What a disaster! <br> Quel dommage! What a shame / pity! <br> ça fait mal It hurts |
|  | I played videogames <br> J'ai fait du vélo <br> I went cycling |  | J'ai de la fièvre I have a fever J'ai vomi | J'ai un rhume I have a cold J'ai un coup de soleil |  |
|  | J'ai mangé.... I ate... <br> II fasait très chaud It was very hot J'ai mal dormi I slept badly |  | I'm sick <br> J'ai une toux I have a cough J'ai la grippe I have the flu | I'm sunburnt <br> Je suis fatigué(e) <br> I'm tired <br> Je suis malade I'm ill |  |

## Translation - Sentence Builders

| Qu'est-ce que tu as mangé hier? |  |  |  |  | Chez le docteur |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Verb |  | Noun |  | Verb | Infinitive phrase | Frequency |
| Hier Yesterday <br> Le weekend dernier Last weekend | j'ai mangé I ate j'ai bu I drank | du riz du chocolat du gâteau de la viande de l'eau des légumes des fruits des pâtes des frites des boissons gazeuses | et c'était | délicieux <br> sucré <br> salé <br> dégoûtant <br> bon | Il faut You must <br> Tu dois You must | rester au lit <br> Stay in bed <br> rester au chaud <br> Stay warm <br> aller chez le dentiste <br> Go to the dentist <br> aller à la pharmacie <br> Go to the pharmacy <br> Mettre un pansement <br> Put a plaster on <br> Dormir beaucoup <br> Sleep a lot <br> Prendre ce médicament <br> Take this medicine <br> Prendre des pastilles pour la gorge <br> Take these throat sweets | Tous les jours <br> Every day <br> Une/deux fois par jour Once/twice per day |


| Quelle matières aimes-tu? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Opinion verb | Infinitive verb | Subject | Connective | Reason |
| Normalement <br> Normally <br> En général <br> In general <br> Pendant le confinement <br> During the lockdown | je préfère I prefer <br> j'adore <br> I love <br> j'aime <br> I like <br> je n'aime pas I do not like je déteste I hate | étudier to study/studying | le français <br> le dessin <br> le théâtre <br> I'EPS <br> I'histoire <br> l'anglais <br> la géographie <br> la religion <br> la technologie <br> les sciences <br> les maths | parce que c'est because it is | intéressant <br> interesting <br> facile <br> easy <br> logique <br> logical <br> créatif <br> creative <br> difficile <br> difficult <br> ennuyeux <br> boring |


| Comment est ton collège? |  |
| :---: | :---: |
| Dans mon collège il y $\mathrm{a} . .$. in my school there is | une grande salle <br> a hall <br> une cantine <br> a canteen <br> un terrain de football <br> a football pitch <br> un cour de récré(ation) <br> a yard/playground <br> un gymnase <br> a gym <br> une piscine <br> a pool <br> une bibliothèque <br> a library <br> un terrain de tennis <br> a tennis court <br> des laboratoires <br> some science labs <br> beaucoup de salles de classe <br> lots of classrooms <br> plus/moins d'examens <br> more/less exams <br> plus d'activités sportives <br> more sports activities |
| Mon collège est my school is... | grand <br> big <br> petit <br> small <br> moderne <br> modern <br> chovette <br> great <br> nul <br> rubbish |


| Que penses-tu des règles de fon école? |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- |
| Sentence Starter | Key structures | Infinitive phrase | Connective | Adjective |
| Dans mon école <br> At my school | on doit you must <br> il faut you have to | écouter le prof Listen to the <br> teacher <br> porter l'uniforme Wear a uniform <br> faire ses devoirs Do your <br> homework <br> Être à l'heure Be on time | et je pense que <br> c'est <br> and I think it is <br> et à mon avis <br> c'est <br> and in my opinion <br> it is | juste <br> fair <br> injuste <br> unfair <br> strict <br> Strict <br> cool <br> cool |
|  | on ne peut pas <br> you can't <br> il est interdit <br> de You're not <br> allowed to | être en retard Be late <br> mâcher du chewing-gum <br> Chew chewing gum <br> porter des baskets/du maquillage <br> Wear trainers/makeup <br> harceler les autres bully others <br> utiliser un portable Use a phone <br> avoir un piercing Have a piercing <br> Fumer Smoke |  |  |


| Quel est ton jour préféré au collège? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Mon jour préféré c'est le... <br> Iundi mardi mercredi jeudi vendredi | car puisque parce que | on a <br> j'ai <br> je n'ai pas de/d' | français <br> théâtre <br> géographie <br> musique <br> technologie <br> anglais <br> EPS <br> histoire <br> informatique <br> arts plastiques maths sciences | C'est | ennuyeux <br> amusant <br> créatif <br> facile <br> difficile <br> intéressant <br> nul <br> Le/la prof est... <br> sympa/sévère |


| Quelle matières aimes-tu? |  |  |  |
| :---: | :---: | :---: | :---: |
| Sentence Starter | Verb | Noun | Adjective |
| Normalement normally, <br> Ce week-end <br> This weekend <br> Pour aller au collège For school <br> Pour aller à une fete For a party | je porte <br> I wear <br> on doit porter we must wear <br> je préfère porter <br> I prefer to wear <br> je vais porter <br> I'm going to wear <br> j'ai porté <br> I wore | un t-shirt a T-shirt un sweat a sweatshirt un pull a jumper un pantalon trousers un jean jeans un survêtement a tracksuit un blazer a blazer <br> une robe a dress une casquette a cap une cravate a tie une jupe a skirt une chemise a shirt <br> des baskets trainers des chausettes socks des chaussures shoes | marron brown orange orange rouge(s) red rose(s) pink jaune(s) yellow bleu(e)(s) blue noir(e)(s) black vert(e)(s) green blanc(he)(s) white violet(te)(s) blue |


| Qu'est-ce que tu portes pour aller au collège? |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Present tense phrase |  | Opinion |  |
| Pour aller au collège For school <br> D'habitude Usually | je porte <br> (I wear) <br> j'aime porter <br> (I like to wear) <br> mais je voudrais porter (but I would like to wear) | un pantalon noir (black trousers) une chemise blanche (a white shirt) un pull noir (a black jumper) une jupe noire (a black skirt) des chassures noires (black shoes) des chaussettes blanches (white socks) des baskets blanches (white trainers) un sweat à capuche orange (an orange hoody) | J'aime bien l'uniforme parce que (I really like the uniform because) <br> Je déteste l'uniforme parce que (I hate the uniform because) | C'est confortable (it's comfortable) C'est pratique (it's practical) C'est chic (it's elegant) C'est démodé (it's oldfashioned) C'est ennuyeux (it's boring) |


| Qu'est-ce que tu voudrais faire comme métier? |  |  |  |
| :---: | :---: | :---: | :---: |
| Je voudrais être I would like to be <br> Je vais être I'm going to be <br> Je vais travailler comme I'm going to work as | avocat(e) <br> lawyer <br> maçon <br> bricklayer <br> hôtesse/ <br> steward <br> flight <br> attendant <br> danseur/se <br> dancer <br> pompier/ <br> pompière <br> firefighter <br> serveur/se <br> waiter/ess <br> chanteur/se <br> singer <br> cuisinier/ <br> cuisinière <br> cook <br> comptable <br> accountant <br> vendeur/se <br> shop assistant <br> électricien <br> electrician <br> infirmier/ <br> infirmière <br> nurse <br> écrivain(e) <br> writer <br> plombier/ <br> plombière <br> plumber <br> photographe <br> photographer | (parce que) <br> c'est un travail... <br> (because) it is a $\qquad$ job | artistique <br> artistic <br> passionnant <br> exciting <br> exigeant <br> demanding <br> important <br> important <br> facile <br> easy <br> difficile <br> hard <br> varié <br> varied <br> répétitif <br> repetitive <br> à responsabilités <br> with responsibility <br> avec de bonnes <br> perspectives <br> with good <br> prospects <br> avec un bon <br> salaire <br> with a good salary |

Translation - Sentence Builders

| 3 Time Frames | Time Marker | $\begin{gathered} \text { Verb } \\ \text { (in correct tense) } \\ \hline \end{gathered}$ | Place/activity/food |
| :---: | :---: | :---: | :---: |
| PRESENT | Normalement Normally Le week-end At the weekend | je mange l eat je joue j'aime regarder I like to watch je vais I go | des céréales cereal aux jeux vidéo video games les films d'horreur horror films au parc to the park |
| PAST | Hier <br> Yesterday <br> Le week-end dernier Last weekend | j'ai mangé late j'ai joué I played je suis allé(e) I went |  |
| FUTURE | Ce soir <br> This evening <br> Ce week-end <br> This weekend <br> La semaine prochaine Next week | je vais manger <br> 'm going to eat <br> je vais jover <br> I'm going to play <br> je voudrais regarder <br> I would like to watch <br> je vais aller <br> I'm going to go |  |

Present tense - Irregular verbs
Some verbs are irregular. They don't follow the regular verb pattern.

| avoir | to have |
| :--- | :--- |
| j'ai <br> tu as <br> il/elle a | i have <br> you have <br> he/she has |
| être | to be |
| je suis <br> tu es <br> il/elle est | i am <br> you are <br> he/she is |


| Present Tense - Verb Endings |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
|  |  | Regular ER Verbs | Regular IR Verbs | Regular RE Verbs |
| 1 | Je | -E | -IS | -S |
| You (s) | Tu | -ES | -IS | -S |
| He / She / One | II / Elle / On | -E | -IT |  |
| We | Nous | -ONS | -ISSONS | -ONS |
| You (pl) | Vous | -EZ | -ISSEZ | -EZ |
| They | Ils / Elles | -ENT | -ISSENT | -ENT |

## Translation - Sentence Builders

être - to be

| je suis | I am |
| :--- | :--- |
| tu es | you are |
| il/elle/on est | he/she is/we are |


| nous sommes | we are |
| :--- | :--- |
| vous êtes | you are |
| ils/elles sont | they are |

faire - to do/make

| je fais | I do |
| :--- | :--- |
| tu fais | you do |
| il/elle/on fait | he/she does/we do |


| nous faisons | we do |
| :--- | :--- |
| vous faites | you do |
| ils/elles font | they do |

aller - to go

| je vais | I go |
| :--- | :--- |
| tu vas | you go |
| il/elle/on va | he/she goes/we go |


| nous allons | we go |
| :--- | :--- |
| vous allez | you go |
| ils/elles vont | they go |

## Studio Grammaire

Most verb form the perfect tense with part of avoir + a past participle.
For regular -er verbs, take off -er and ad é: manger (to eat) - j'ai mangé (l ate/l have eaten)
boire (to drink), faire (to do/make), lire ( $\dagger \mathrm{oread}$ ), prendre (to take) and voir (to see) have irregular past participles.
j' ai
tu as
il/elle/on a
nous avons
vous avez
ils/elles ont
dansé/regardé
bu
fait
lu
pris
vu

A few important verbs take être, not avoir. The past participle has to agree with the subject: Elle est allée en ville.
je suis
tu es
il/elle/on est allé (e)(s)
nous sommes resté (e)(s)
vous êtes sorti (e)(s)

## Year 8 - Sentence Builder

## ¿Qué hiciste en las vacaciones? - What did you do in the holidays?

| El verano pasado (Last summer) <br> El año pasado (Last year) | fui a (I went to) | Grecia (Greece) Gales (Wales) Escocia (Scotland) Francia (France) España (Spain) Alemania (Germany) los Estados Unidos (the USA) <br> la playa (the beach) | $\begin{aligned} & \text { con } \\ & \text { (with) } \end{aligned}$ | mis padres (my parents) <br> mis amigos (my friends) <br> mi familia (my family) mis abuelos (my grandparents) <br> mi clase (my class) | Por la mañana (In the morning) Por la tarde (In the afternoon) Por la noche (In the evening) Todos los días (everyday) | tomé el sol (I sunbathed) comí comida típica (I ate typical food) nadé en el mar (I swam in the sea) visité monumentos (I visited monuments) | compré recuerdos (I bought souvenirs) hice deportes acuáticos (I did aquatic sports) hice turismo (I went sightseeing) saqué fotos (I took photos) | y fue (and it was) | súper <br> (really) <br> muy <br> (very) <br> bastante <br> (quite) <br> un poco <br> (a bit) | emocionante (exciting) interesante (interesting) relajante (relaxing) delicioso (delicious) divertido (fun) <br> guay (cool) aburrido (boring) agotador (tiring) caro (expensive) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| ¿Cómo fuiste? - How did you get there? |  |  |
| :--- | :--- | :--- |
| Viajé <br> (I travelled) <br> Prefiero viajar <br> (I prefer to <br> travel) | en avión <br> (by plane) <br> en barco <br> (by boat) <br> en tren <br> (by train) <br> en coche <br> (by car) <br> En bicicleta <br> (by bike) | y fue rápido. <br> (and it was fast) <br> y fue lento <br> (and it was slow) <br> y fue peligroso <br> (and it was dangerous) <br> y fue seguro <br> (and it was safe) <br> y fue barato <br> (and it was cheap) <br> y fue caro <br> (and it was expensive) |
|  |  | Porque es <br> (because it is) |


| Las vacaciones - Presente/Pasado/Futuro |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Time marker | Verb | Complement |  |  |
| Normalmente (Normally) <br> Generalmente / en general (In general) | voy <br> (l go) <br> vamos <br> (we go) | a Francia (to France) <br> a Alemania (to Germany) <br> a Grecia (†o Greece) <br> a España (†o Spain) <br> a Italia (to Italy) | en barco <br> (by boat) <br> en tren (by train) <br> en avión (by plane) <br> en bicicleta (by bicycle) <br> en autocar (by coach) en coche (by car) | con mi familia (with my family) con mis amigos (with my friencs) con mis padres |
| El año pasado (Last year) <br> El verano pasado (Last summer) | fui (I went) <br> fuimos (we went) |  |  | (with my parents) con mi instituto (with my school) con mi clase |
| El año próximo (Next year) <br> En el futuro (In the future) | me gustaría ir (I would like to go) voy a ir (I am going to go) |  |  | (with my class) |

## Year 8 - Sentence Builder

## ¿Qué haces normalmente durante las vacaciones? - What do you usually do in the holidays?

| Normalmente (Usually) <br> A menudo (Often) Cada año (Every year) | voy a (l go to) | Grecia (Greece) Gales (Wales) Escocia (Scotland) Francia (France) España (Spain) Alemania (Germany) los Estados Unidos (the USA) <br> la playa (the beach) | con <br> (with) | mis padres <br> (my parents) <br> mis amigos <br> (my friends) <br> mi familia <br> (my family) <br> mis abuelos <br> (my <br> grandparents) | Generalmente (Generally) <br> Por la mañana (In the morning) <br> Por la tarde (In the afternoon) <br> Por la noche (In the evening) <br> Todos los días (everyday) <br> A veces <br> (sometimes) | tomo el sol (I sunbathe) como comida típica (I eat typical food) nado en el mar (I swim in the sea) visito monumentos (I visit monuments) compro recuerdos (I buy souvenirs) hago deportes acuáticos (I do aquatic sports) hago turismo (I go sightseeing) saco fotos (I take photos) | y es <br> (and it is) | súper <br> (really) <br> muy <br> (very) <br> bastante <br> (quite) <br> un poco <br> (a bit) | emocionante (exciting) interesante (interesting) relajante (relaxing) delicioso (delicious) divertido (fun) guay (cool) aburrido (boring) agotador (tiring) caro (expensive) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |


| ¿Qué haces en tu tiempo libre? - What do you do in ree-time? |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Time expression | Verbs | Complement |  | Reason |
| El fin de semana (At the weekend) Después del instituto (After school) | hago (I do) hacemos(we do) | gimnasia (gymnastics) atletismo (athletics) | equitación (horse-riding) natación (swimming) | porque (no) es because it is (not) <br> divertido <br> amusing / fun <br> interesante <br> interesting <br> genial <br> great <br> emocionante <br> exciting <br> guay <br> cool <br> tonto <br> silly |
| Por la mañana <br> (In the morning) <br> Por la tarde <br> (In the afternoon/evening) | juego (I play) <br> jugamos(we play) <br> FOR GAMES | al fútbol. <br> (football) <br> al baloncesto <br> (basketball) | al ordenador (on the computer) a los videojuegos (video games) |  |
| Once/twice/three times a week <br> A veces <br> (Sometimes) | toco (I play) tocamos(we play) FOR INSTRUMENTS | la guitarra (the guitar) | el piano (the piano) |  |
| De vez en cuando (from time to time) Todos los días (Every day) | escucho música (I listen to music) <br> paseo al perro (I walk my dog) <br> salgo con mis amigos (I go out with my friends) <br> leo libros (I read books) |  |  |  |

## Year 8 - Sentence Builder

| Programas de televisión - TV programmes |  |  |  |
| :---: | :---: | :---: | :---: |
| Opinion verb (1) | TV programmes (2) | Reason (3) | Verb (4) |
| Prefiero <br> (I prefer) <br> Odio <br> (I hate) <br> Me encanta( $n$ ) <br> (l love) <br> Me gusta(n) <br> (I like) <br> No me gusta(n) <br> (I do not like) | el telediario / las noticias (the news) <br> los programas de deporte (sports programmes) <br> los programas de música (music programmes) <br> los dibujos animados (cartoons) <br> los concursos (game shows) <br> los documentales (documentaries) <br> las telenovelas (soaps / soap operas) <br> las comedias (comedies) <br> las series policiacas (detective series) | porque (because) <br> ya que (since) | es... <br> (It is) <br> son... <br> (They are) |
| Comparison (5) | Adjective (6) | Comparison (7) | TV programmes (2) |
| más <br> (more) <br> menos <br> (It is) | aburrido/a /os/as (boring) informativo/a/os/as (informative) educativo/a/os/as (educational) gracioso/a/os/as (funny) animado/a/os/as (lively) entretenido/a/os/as (entertaining) emocionante(s) (exciting) interesante(s) (interesting) | que... (than...) | (see column two) |

Tipos de películas - Film genres

| Opinion verb (1) | TV programmes (2) |  |  | Reason (3) | (4) | intensifier (5) | Adjective (6) |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Me encantan... (l love) | Ias películas de | amor (romantic) | ciencia ficción (science fiction) | porque <br> (because) <br> ya que <br> (since) | son... (they are) | súper <br> (really) | interesantes (interesting) | aterradoras (scary) |
| Me fascinan... (I am fascinated by...) |  | acción (action) | dibujos animados (animation) |  |  | muy (very) | entretenidas (entertaining) | tontas <br> (silly) |
| Me gustan mucho... <br> (I like ... a lot) |  | aventura (adventure) | guerra (war) |  |  | bastante (quite) | aburridas (boring) | románticas (romantic) |
| Prefiero... (I prefer) |  | artes marciales (martial arts) | terror (horror) |  |  | un poco (a bit) | informativas (informative) | geniales (great) |
| No me gustan nada... (I don't like at all) | las comedias (comedies) |  |  |  |  |  | emocionantes (exciting) |  |
| *Odio/Detesto (I hate) |  |  |  |  |  |  |  |  |

## Year 8 - Sentence Builder

| Qué vas a hacer el fin de semana? - What are you going to do at the weekend? |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Weather | Time expressions | IR (to go) present form | Infinitive | It is going to be | Adje | tive |
| Si <br> (If) | hace buen tiempo (the weather is good) hace mal tiempo (the weather is bad) hace sol (it's sunny) calor (it's hot) frío (it's cold) llueve (it rains) | el fin de semana (at the weekend) <br> mañana (tomorrow) <br> esta tarde (this afternoon) | voy a <br> (I am going to) <br> va a <br> (he/she is going to) <br> vamos a (we are going to) | descansar usar el ordenador montar en bici jugar a los videojuegos hacer deberes ver la tele ir de compras salir con mis amigos ir al cine | Va a ser (It is going to be) | genial (great) emocionante (exciting) interesante (interesting) guay (cool) | relajante <br> (relaxing) <br> divertido <br> (fun) <br> tedioso <br> (annoying) <br> aburrido <br> (boring) |


| Vocabulary for this lesson - ¿Qué llevas? |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Verb | un jersey (a jumper) <br> un chándal (a tracksuit) <br> un vestido (a dress) <br> un pijama (a pyjama) <br> una camisa (a shirt) <br> una camiseta (a t-shirt) <br> una chaqueta (a blazer) <br> una sudadera (a sweatshirt) <br> una gorra (a cap) <br> una corbata (a tie) <br> una falda (a skirt) <br> unos pantalones (trousers) <br> unos vaqueros (jeans) <br> unos zapatos (shoes) <br> unas zapatillas de deporte (trainers) unas calcetines (socks) | Adjective |  |  |  |
| Durante el confinamiento (During the lockdown) | Llevo <br> (I wear) <br> prefiero llevar (l prefer to wear) <br> voy a llevar (I'm going to wear) <br> tengo que llevar (I must wear) tenemos que llevar (we must wear) |  | blanco (white) amarillo (yellow) rojo (red) negro (black) azul (blue) marrón (brown) gris (grey) verde (green) rosa (pink) naranja (orange) violeta (purple) | Adjective ending | Singular | Plural |
| De vuelta a la escuela (On return to school) |  |  |  | masculine | -0 | -OS |
|  |  |  |  | feminine | -A | -AS |
|  |  |  |  | ends in -e | -E | -ES |
|  |  |  |  | Ends in a consonant | -L -N $-S$ | $\begin{aligned} & \text {-LES } \\ & \text {-NES } \\ & \text {-SES } \end{aligned}$ |
|  |  |  |  |  |  |  |

## Year 8 - Sentence Builder

| Vocabulary for this lesson - Mi rutina diaria |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sentence Starter |  | Verb |  | Time |
| Primero <br> (Firstly) <br> Luego <br> (Then) <br> Después <br> (Afterwards) <br> Siempre <br> (Always) <br> Por lo general (Generally) | A menudo (Often) <br> A veces (Sometimes) De vez en cuando (From time to time) Nunca (Never) | Me despierto (I wake up) <br> Me levanto (I get up) <br> Me baño (I have a bath) <br> Me ducho (I have a shower) <br> Me lavo la cara (I wash my face) <br> Me lavo los dientes (I brush my teeth) <br> Me visto (I get dressed) <br> Me maquillo (I put on make-up) | Me peino (I comb my hair) <br> Me aliso el pelo (I straighten my hair) <br> Me pongo gomina (I put gel on my hair) <br> Desayuno (I have breakfast) <br> Ceno (I have dinner) <br> Veo la tele (I watch TV) <br> Voy al insti (I go to school) <br> Hago mis deberes (I do my homework) | a las seis (at 6 o'clock) <br> a las seis y media (at 6.30) <br> a las siete (at 7 o'clock) <br> a las siete y media (at 7.30) <br> a las ocho (at 8 o'clock) <br> a las ocho y cuarto (at 8.15) <br> a las nueve (at 9 o'clock) |


| ¿Qué desayunas/comes/meriendas/cenas normalmente? What do you usually have for breakfast/lunch/dinner? |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sentence Starter | Verb | Noun | Opin |  |
| Siempre <br> (Always) <br> Normalmente <br> (Normally) <br> Por lo general/ <br> Generalmente <br> (Generally) <br> A menudo <br> (Often) <br> A veces <br> (Sometimes) <br> De vez en cuando <br> (From time to time) <br> Nunca <br> (Never) | desayuno <br> (for breakfast I have...) <br> como <br> (for lunch I have...) <br> meriendo <br> (for tea I have...) <br> ceno <br> (for dinner I have...) <br> bebo <br> (I drink) <br> me gusta beber <br> (I like to drink) <br> me gusta comer <br> (I like to eat) | un bocadillo (a sandwich) <br> pollo (chicken) <br> pescado (fish) <br> marisco (seafood) <br> carne (meat) <br> arroz (rice) <br> queso (cheese) <br> sopa (soup) <br> ensalada (salad) <br> fruta (fruit) <br> patatas fritas (chips) <br> verduras (vegetables) <br> pasta (pasta) <br> pizza (pizza) <br> tostadas (toast) <br> cereales (cereals) <br> galletas (cookies) <br> caramelos (sweets) <br> bebidas gaseosas (fizzy drinks) <br> zumo de fruta (fruit juice) <br> agua (water) <br> leche (milk) | Me gusta <br> Me gusta mucho 0 () <br> Me encanta - <br> No me gusta $\because$ No me gusta nada $\qquad$ <br> Me gustan <br> Me encantan <br> No me gustan: <br> Odio <br> Prefiero $\qquad$ | el arroz <br> el marisco <br> el pescado <br> el queso <br> el agua <br> la carne <br> la fruta <br> la leche <br> los caramelos los huevos las verduras las hamburguesas |

## Year 8 - Sentence Builder

| ¿Llevas una vida sana? |  |  |  |  |  | El cuerpo |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Llevo una dieta sana <br> (I have a healthy diet) | el arroz/el pan <br> (rice/bread) <br> el pollo/el pescado <br> (chicken/fish) <br> la carne/la ensalada <br> (meat/salad) <br> la pasta/la pizza <br> (pasta/pizza) <br> los caramelos/los huevos <br> (sweets/eggs) <br> las galletas/las verduras <br> (biscuits/vegetables) | porque es |  | delicioso/a (delicious) <br> rico/a (tasty) <br> salado/a (salty) <br> sano/a (healthy) <br> dulce (sweet) <br> asqueroso (disgusting) <br> deliciosos/as (delicious) <br> ricos/as (tasty) <br> salados/as (salty) <br> sanos/as (healthy) <br> dulces (sweet) <br> asquerosos (disgusting) |  | ¿Qué te duele? <br> Me duele el brazo/estómago/pie Me duele la cabeza/ garganta Me duele la espalda/mano/pierna Me duelen los dientes/oídos/ojos |  |  | (What hurts (you)?) <br> (My arm/stomach/foot hurts) <br> (My head/throat hurts) <br> (My back/hand/leg hurts) <br> (My teeth/ears/eyes hurt) |
| Me gusta (bastante) (I (quite) like) |  | porque son |  |  |  | Tengo - (1) | ave) | dolor de cabeza dolor de espalda | (a headache) (a backache) |
| No me gusta(n) nada... <br> (I really don'† like...) |  |  |  | Tengo - (1) | ave) | un resfriado <br> fiebre <br> gripe <br> tos <br> quemaduras del sol | (a cold) (a temperature) (the flu) (a cough) (a sunburn) |
| Lo / La como... (l eat it...) <br> Los / Las como... (l eat them...) | tres veces al día (three times a day) cada día/todos los días (every day) dos veces a la semana (two times a week) | los fines de semana (at weekends) una vez al mes (once a month) muy a menudo (very often) |  |  |  | a veces <br> (sometimes) <br> de vez en cuandio (from time to time) (Casi)nunca lo / la / los / las como (I (nearly) never eat them) |  | Estoy - (l c |  | vómito <br> cansado / cansada enfermo / enferma | (I have been sick) (tired) (ill/sick) |
| ¿Qué te duele y por qué? |  |  |  |  |  |  |  |  |  |
| Time Phrase | Activity |  | Therefore |  |  | Connec |  |  | Exclamation |
| Ayer <br> (Yesterday) <br> Hoy <br> (Today) <br> La semana pasada <br> (Last week) <br> El fin de semana pasao <br> (Last weekend) | Jugué al fútbol / baloncesto <br> (I played football / basketball) <br> Jugué a un videojuego <br> (I played a videogame) <br> Hice footing <br> (I went jogging) <br> Monté en bicicleta <br> (I rode a bike) <br> Comí.... <br> (l ate...) <br> Hizo mucho calor <br> (It was very hot) <br> No dormí mucho <br> (I didn't sleep much) |  | Por eso (Therefore) <br> Así que <br> (So) |  | Me duele el brazo/estómago/pie Me duele la cabeza/ garganta. Me duele la espalda/mano/pierna Me duelen los dientes/oídos/ojos <br> Tengo fiebre <br> (I have a fever) <br> Tengo vómito <br> (I have been sick) <br> Tengo tos <br> (I have a cough) |  | Tengo gripe <br> (I have the flu) <br> Tengo catarro <br> (I have a cold) <br> Tengo quemaduras de sol <br> (I'm sunburnt) <br> Estoy cansado/a <br> (I'm tired) <br> Estoy enfermo/a <br> (I'm ill) |  | ¡Qué desastre! (What a disaster!) <br> ¡Qué pena! <br> (What a shame / pity!) <br> ¡Qué lástima! (What a shame / pity!) <br> ¡Qué mal! <br> (How bad!) |

## Year 8 - Sentence Builder

| Las asignaturas escolares - School subjects |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Los lunes Los martes Los miércoles Los jueves Los viernes <br> Por la mañana (In the morning) | $\begin{aligned} & a \\ & \text { (at) } \\ & \begin{array}{l} \text { a } \\ \text { (at) } \end{array} \end{aligned}$ | la una <br> las dos <br> tres <br> cuatro <br> cinco <br> seis <br> siete <br> ocho <br> nueve <br> diez | cinco <br> (five past) <br> y diez <br> (ten past) cuarto (quarter past) veinte (twenty past) veinticinco (twenty-five past) media (half past) | tengo <br> (I have) <br> tenemos <br> (we have) <br> estudio <br> (I study) <br> estudiamos <br> (we study) | español <br> inglés <br> dibujo <br> teatro <br> historia <br> geografía <br> informática <br> música <br> religión <br> educación <br> física | (No) me gusta porque es | divertido/a aburrido/a creativo/a interesante importante fácil (easy) difícil (difficult) útil (useful) |
| Por la tarde (In the afternoon) |  | once doce | veinticinco (twenty-five to) <br> menos veinte (twenty to) cuarto (quarter to) diez (ten to) cinco (five to) |  | ciencias matemáticas | (No) me gustan porque son | divertidos/as aburridos/as creativos/as interesantes importantes fáciles difíciles útiles |


| El uniforme escolar / La ropa |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Present tense phrase |  | Opinion |  |  |
| En el insti (At school) | llevo <br> (I wear) <br> llevamos <br> (we wear) tengo que llevar (I have to wear) tenemos que llevar (we have to wear) | unos pantalones negros <br> (black trousers) <br> una camisa blanca <br> (a white shirt) <br> un jersey azul <br> (a blue jumper) <br> una falda gris <br> (a grey skirt) | Me encanta el uniforme porque es... (I love the uniform because it is...) Odio el uniforme ya que es... (I hate the uniform as it is... ) porque es... (because it is...) porque son... (because they are...) | cómodo (comfortable) práctico (practical) elegante (elegant) bonito (pretty) | guay <br> (cool) <br> incómodo <br> (uncomfortable) <br> feo <br> (ugly) <br> anticuado <br> (oldfashioned) |
| Los fines de semana (At weekends) | me gusta llevar (I like to wear) | unos zapatos negros (black shoes) unos calcetines blancos (white socks) unas zapatillas de deporte blancas (white trainers) una sudadera naranja (an orange hoody) |  |  |  |

## Year 8 - Sentence Builder

| ¿Que haces para estar en forma? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Expressions of frequency | Verb phrase |  | Connective | Justification |
| Para estar en forma..... <br> (To be fit/in shape...) | Todos los días (every day) <br> normalmente (normally) <br> Dos/tres veces al días (two/three times a day) <br> De vez en cuando (From time to time) | Como sano <br> (I eat healthily) <br> Como muchas fruta y verduras (I eat lots of fruit and vegetables) <br> Bebo mucho agua <br> (I drink lots of water) <br> Duermo ocho horas por noche (I sleep eight hours per night) | Hago ejercicio/deporte (I do exercise/sport) <br> No como caramelos <br> (I don't eat sugary foods) <br> No como comida rápida (I don't eat fast-food) <br> No bebo bebidas gaseosas (I don't drink fizzy drinks) | porque <br> (Because) <br> ya que (because) | es sano (it is healthy) <br> es bueno para la salud (it is good for your health) <br> es malo para la salud (it is bad for your health) |


| Consejos para estar en forma |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Expressions of frequency | Verb phrase | Connective | Justification |
| Para llevar una vida sana (to have a healthy lifestyle) <br> Para mantenerse en forma (to keep in shape) | voy a <br> (l am going to) <br> tengo que <br> (I have to) <br> quiero <br> (I want to) <br> debemos <br> (we must/should) <br> hay que <br> (we have to) <br> (impersonal) | mer más sano /equilibrado (eat more healthily /balanced) <br> comer muchas fruta $y$ verduras (eat lots of fruit and vegetables) <br> beber más agua <br> (drink more water) <br> dormir ocho horas por noche (sleep eight hours per night) <br> hacer ejercicio/deporte <br> (do exercise/sport) <br> comer menos caramelos (eat less sweets) <br> comer menos comida rápida (eat less fast-food) <br> beber menos bebidas gaseosas (drink less fizzy drinks) | porque <br> (Because) <br> ya que <br> (Since) | es sano <br> (it is healthy) <br> es bueno para la salud <br> (it is good for your health) <br> es malo para la salud (it is bad for your health) |

## Year 8 - Sentence Builder

| ¿En que te gustaria trabajar en el futuro? |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Sentence starter | Modal verb | Infinitive structures | Connective | Verb | Adjective |
| En el futuro (In the future) <br> Cuando sea mayor (When I am older) | voy a <br> (I am going <br> to) <br> me gustaría <br> (I would like) | ser enfermero/a (to) be a nurse ser veterinario/a (to) be a vet ser periodista (to) be a journalist | porque <br> (because) <br> ya que <br> (since) | $\begin{aligned} & \text { soy } \\ & (\mathrm{lam}) \end{aligned}$ | trabajador/a <br> (hard-working) <br> paciente <br> (patient) <br> responsable <br> (responsible) <br> independiente <br> (independent) <br> organizado <br> (organised) <br> ambicioso (ambitious) |
|  |  | trabajar... (to work) en una oficina (in an office) al aire libre (outdoors) en equipo (in a team) solo/a (by myself) con niños (with children) con animales (with animals) |  |  |  |
|  |  | tener... (to have) un trabajo creativo (a creative job) un trabajo manual (a manual job) |  | es <br> (it is) <br> sería <br> lit would <br> be) | variado (varied) <br> práctico (practical) creativo (creative) emocionante (exciting) bien pagado (well-paid) |

## Verb Endings

| Present |  |  |  |
| :---: | :---: | :---: | :---: |
|  | $\underline{\text { ar }}$ | $\underline{\text { er }}$ | $\underline{\text { ir }}$ |
| I | - o | - - | - - |
| You | - as | - es | - es |
| He / She / It | - a | - e | - e |
| We | - amos | - emos | - imos |
| You | - áis | - éis | - ís |
| They | - an | - en | - en |


| Preterite |  |  |
| :---: | :---: | :---: |
|  | ar | er/ir |
| I | - é | - í |
| You | - aste | - iste |
| He / She / It | - ó | - ió |
| We | - amos | - imos |
| You | - asteis | - isteis |
| They | - aron | - ieron |


| Near Future |  |  |  |
| :---: | :---: | :---: | :---: |
| I | voy |  |  |
| You | vas |  |  |
| He / She / It | va | $+a$ |  |
| We | vamos |  |  |
| You | vais |  |  |
| They | van |  |  |



| 3A | Identify three immediate effects of exercise. |
| :---: | :---: |
|  | - Sweating <br> - Red face <br> - Increased body temperature <br> - Increased heart rate <br> - Increased breathing rate |
| 3B | Identify three short-term effects of exercise. |
|  | - Fatigue <br> - Muscle soreness (DOMS) <br> - Dizziness <br> - Nausea |
| $3 C$ | Identify three long-term effects of exercise. |
|  | - Lower resting heart rate <br> - Weight loss <br> - Increased muscle mass <br> - Increased strength and cardiovascular endurance |
| 3D | Define health. |
|  | - A state of complete physical, mental, and social well-being |
| 3E | Define fitness. |
|  | - The ability to meet the demands of your environment |
| 3F | Identify three positive influences on health. |
|  | - Regular exercise <br> - Healthy diet <br> - Regular sleep <br> - Positive friendship groups <br> - High quality education |


| $3 \mathbf{3 G}$ | Identify three negative influences on health. |
| :--- | :--- |
|  | - Lack of exercise <br> - Unhealthy diet/too much fatty food <br> - Lack of regular sleep <br> - Lack of positive friendship groups <br> - Lack of education |
| Identify three types of substance abuse. |  |
|  | - Alcohol <br> - Drugs <br> - Smoking cigarettes |
|  | Identify the negative effects alcohol can have on a person's <br> health. |
| - Dehydration <br> - Nausea <br> - Memory loss <br> - Liver damage |  |
| 3J | Identify the negative effects drugs can have on a person's health. |
| - Feeling paranoid |  |
| - Poor judgment |  |
| - Heart problems |  |

## Define the following fitness components:

a. Agility
b. Balance
C. Cardiovascular endurance
d. Coordination
e. Flexibility
f. Muscular endurance
g. Power
h. Reaction time
i. Maximal strength
j. Static strength
k. Speed

4A
a. The ability to move and change direction quickly with control.
b. Maintaining the centre of mass over the base of support.
c. The ability of the heart and lungs to supply oxygen to the working muscles.
d. The ability to use two or more parts of the body together with control.
e. The range of movement possible at a joint.
f. The ability of a muscle or muscles to repeat contractions without fatigue.
g. Maximum strength $x$ maximum speed.
h. The time taken to respond to a stimulus.
i. The largest force possible in single contraction.
j. The amount of strength applied to an immovable object.
k. The maximum rate at which you can perform a movement or cover a distance.

## Identify a sporting example for the following fitness components:

a. Agility
b. Balance
c. Cardiovascular endurance
d. Coordination
e. Flexibility
f. Muscular endurance
g. Power
h. Reaction time
i. Maximal strength
j. Static strength
k. Speed
a. When marking an opponent in netball.
b. When performing a handstand in gymnastics.
c. When running at the end of a marathon.
d. When moving the arms and legs to serve a ball in tennis.
e. When stretching out wide to catch a ball in cricket.
f. When repeatedly punching an opponent in boxing.
g. When jumping for a rebound in basketball.
h. When returning a smash in badminton.
i. When throwing a shot putt in athletics.
j. When holding a handstand in gymnastics.
k. When moving the legs quickly in the 100 m .

4 of 5

| 5A | Define aerobic. |
| :---: | :---: |
|  | - With oxygen |
| 5B | Define anaerobic. |
|  | - Without oxygen |
| 5 C | Identify the equation for aerobic respiration. |
|  | - Glucose + Oxygen $=$ Energy $+\mathrm{CO}_{2}+$ Water |
| 5D | Identify the equation for anaerobic respiration. |
|  | - Glucose $=$ Energy + Lactic Acid |
| 5E | Describe aerobic exercise. |
|  | - Long duration and low intensity exercise |
| 5F | Describe anaerobic exercise. |
|  | - Short duration and high intensity exercise |
| 5G | Identify examples of an aerobic sporting activity. |
|  | - A marathon <br> - Long-distance cycling |
| 5H | Identify examples of an anaerobic sporting activity. |
|  | - 100 m sprint <br> - High jump |


| 51 | Identify the fitness components developed through aerobic exercise. |
| :---: | :---: |
|  | - Cardiovascular endurance |
| 5J | Identify the fitness components developed through anaerobic exercise. |
|  | - Power and speed |
| 5K | Identify how an athlete would calculate their maximum heart rate (MHR)? |
|  | - $\mathrm{MHR}=220$ - age |
| 5L | Define heart rate. |
|  | - The number of times the heart beats per minute |
| 5M | Define stroke volume. |
|  | - The volume of blood pumped from the left side of the heart per beat |
| 5N | Define cardiac output. |
|  | - Heart rate x stroke volume |
| 50 | Define anticipatory rise. |
|  | - The slight increase in heart rate ahead of starting exercise |
| 5P | Identify the aerobic and anaerobic training zones. |
|  | - Aerobic $=60-80 \%$ of MHR <br> - Anaerobic = $80-90 \%$ of MHR |

## Identify the seven nutrients which make up a healthy balanced diet.

- Carbohydrates
- Fats
- Protein
- Fibre
- Vitamins
- Minerals
- Water

Identify the main benefit of each nutrient listed in Q8.40.

- Carbohydrates = body's main energy source
- Fats = body's secondary energy source
- Protein = muscle growth and repair
- Fibre = supports digestive system
- Vitamins = supports immune system
- Minerals = helps maintain strong bones
- Water = helps maintain hydration


## Identify examples of each nutrient listed in Q8.40.

- Carbohydrates = pasta, rice, potatoes
- Fats = red meat, cheese, nuts
- Protein = chicken, fish, eggs
- Fibre = brown bread, cereal, porridge
- Vitamins = fruit and vegetables
- Minerals = milk (calcium)
- Water = water


## Define sedentary lifestyle.

6D

- A person's choice to engage in little physical activity


## Identify consequences of a sedentary lifestyle.

6E

- Weight gain/obesity
- Heart problems (e.g., hypertension)
- Diabetes
- Low self-esteem


## Define obesity.

- A person with a large fat content (BMI >30)


## Identify causes of obesity.

- High calorie consumption combined with minimal physical activity


## Identify physical, mental and social effects of obesity.

6H

- Physical effects: cancer, heart disease, diabetes
- Mental effects: depression, loss of confidence
- Social effects: inability to socialise


## Define dehydration.

61

- The harmful reduction of water in the body

Identify causes of dehydration.
6J

- Not drinking enough fluids
- Over-exercising


## Identify three effects of dehydration.

6K

- Blood thickens
- Increased heart rate
- Fatigue

Notes

Notes

Notes

