

Knowledge Organiser Year 9 Spring 1 2024

Create Your Future

This half term's front cover quote was suggested by Ruby Watson in 8SRS

Be resilient:

"Knowledge will not be acquired without pains and application. It is troublesome and deep, digging for pure waters; but when once you come to the spring, they rise up and meet you."

Tom Felton

English Actor, best known for playing Draco Malfoy in the film adaptations of Harry Potter





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Science, PE and Technology are on a rotation so have multiple pages in this booklet. Your teacher will direct you to the appropriate pages when setting work.

In Class Expectations



Out of Class Expectations



Words of the Fortnight



ADJECTIVE: unnecessary, especially through being more than enough.



NOUN: promote someone else's welfare, even at a risk or cost to ourselves.



ADJECTIVE: having great power and influence.

Word	Where have you used this in your work over the fortnight?	Examples of use in a sentence from a subject	Merits received?

Guided Reading Tracker



Date	Title and author	Summary of reading (+interesting or new vocabulary learned)	Sigr	ned:	As part of your library lessons, you are expected to complete at least 20 minutes of reading once a fortnight.
					To track your reading, you need to complete a row of the table before each library lesson to show details of the book you have read.
					Your table also needs to be signed by someone who has witnessed you reading. This will most likely be a parent/guardian but it can alternatively be signed by you tutor, classroom teacher,
					buddy reader, TA or Sarah in the library.



Section 1: Key Voc	abulary	Section 2: Key Skills/Strategies	Section 3: Context and Further Reads
Tier 3 vocabulary	Definition	Persuasive writing/speech techniques	Context: the author
Dystopian Fiction	An imagined world or society in which people lead wretched, dehumanised, fearful lives	Direct address: When the text addresses the reader directly.	George Orwell was born in India in 1903 when India was still part of the British Empire. He worked in Burma as a police officer
Propaganda	Information, especially of a biased or misleading nature, used to promote a political cause or point of view	"That is my message to you, comrades: Rebellion!" Rhetorical questions: A question asked in order to create a dramatic effect or to	before he became a writer. Orwell was a socialist. A socialist believes that all people in any society are of equal worth and value because
Oppression	Prolonged cruel or unjust treatment by an authority	make a point rather than to get an answer. "Is it not crystal clear, then, comrades, that all the evils of this life	we are all human beings. Everyone should be given equal opportunity and society have a duty and responsibility
Corruption	Dishonest or fraudulent conduct by those in power	of ours spring from the tyranny of human beings?" Hyperbole:	to make sure that all its members have reasonable standards of care and help
Totalitarianism	A system of government that is dictatorial and requires complete subservience from its people	Exaggerated language used for effect. "The life of an animal is misery and slavery"	 Context: the novel Animal Farm was published in 1945. The majority of the characters and events in Animal Farm are
Dictatorship	A government which has one leader who is very authoritative and is usually obtained by force	Emotive language: Vocabulary to make the audience/reader feel a particular emotion.	 linked to what happened before, during, and after the Russian Revolutions. As a communist turned socialist, and as a journalist too, Orwell wanted to attack and highlight the history, rhetoric
Manifesto	A written statement declaring publicly the intentions, motives, or views of its issuer	"We are born, we are given just so much food as will keep the breath in our bodies, and those of us who are capable of it are forced to work to the last atom of our strength; and the very instant that our usefulness has come to an end we are	and excesses of Soviet Communism whose leaders abused their power using this political ideal.The Russian Revolution took place in 1917, during the final
Tier 2 vocabulary	Definition	slaughtered with hideous cruelty."	phase of World War I. It removed Russia from the war and brought about the transformation of the Russian Empire into the Union of Soviet Socialist Republics (USSR), replacing Russia's traditional monarchy with the world's first ever
Infer	To work something out based on evidence from the text.	Instructional language. "And above all, pass on this message of mine to those who come after you, so that future generations shall carry on the struggle until it is victorious."	Communist state.
Reiterates	Reinforcing an idea within a text.	Repetition	
Connotation	What a word or phrase makes you think of.	The use of a word or phrase numerous times. "No animal in England knows the meaning of happiness or leisure after he is a year old. No animal in England is free."	Flag of Flag of the Animal Farm Soviet Union Key themes in the novel
Satire	The use of humour, irony, exaggeration or ridicule to expose and criticise people's stupidity or vices	Triplets/tricolon Three points to support an argument. "The soil of England is fertile, its climate is good, it is capable of affording food in abundance to an enormously greater number of	Leadership, Control, Lies and Propaganda, Violence, Pride and Belonging, Dreams and Hopes If you enjoyed animal farm then read these next: 1984 – George Orwell
Allegory	A story that can be interpreted to reveal a hidden meaning, typically a moral or political one	affording food in abundance to an enormously greater number of animals than now inhabit it."	Fahrenheit 451- <i>Ray Bradbury</i> Lord of the Flies – <i>William Golding</i> Never Let Me Go – <i>Kazuo Ishiguro</i> 6

Year: 9

Term:

Term.		
Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Subordinate	To treat someone as lesson important than someone else.	
Patriarchy	A system of society or government in which men hold the power.	
Satire	The use of humour, irony, exaggeration or ridicule to expose and criticise people.	
Inferior	Lower in rank, status or quality	
Antagonistic	Showing or feeling active opposition or hostility towards someone or something.	
Tier 2 vocabulary	Definition	
Comedy	fiction that is light, funny and generally has a happy ending.	
Tragedy	Based on human suffering, and the terrible or sorrowful events that befall a main character. Usually, the protagonist is brought down by his/her own flaws.	
Conflict	A struggle between two opposing forces – two characters, a character and nature or even an internal struggle.	
Dramatic Irony	A situation in which the audience or reader has a better understanding of events than the characters do.	
Antagonist	The principle opponent or foil of the main character.	
Dynamic Character -	A character who undergoes some important change in the course of the story.	

English: Much Ado about Nothing



Section 2: New Key Skills/Strategies	Section 3: Shakespeare's Life and Times
CPEAT writing skills	Key Themes
What are Beatrice's attitudes towards Benedict at the start of the play? Initially, Beatrice shows a dislike towards Benedick in her statement: "he is no less than a stuffed man" The noun 'stuffed man' has negative connotations of him being worthless and infers that he is of no importance. Beatrice's attitude defies gender expectations of the time; women were expected to be submissive to men, yet here she is shown to stand up to him in a very assertive way.	Nothing and 'noting' The title of the play refers to one of its main themes. 'Nothing' implies that the concerns of the play are trivial. The word 'nothing' in Shakespearean times was pronounced 'noting' and so the title itself is a pun.
Key analysis words	comedy, there's normally a problem at the beginning of the pla
Infer	that is solved by the end of it – the audience are confident that everything will end well.
Connotations	The play contains a lot of features commonly used in his comedies, including: A happy ending, disguises, music and
Impact	dancing, young lovers, marriage and puns and wordplay.
Reiterate	Marriage
Embellishes	Marriages were rarely about love and were often arranged to bring financial or social benefit to both families. People were expected to get married, the characters are very concerned wit
	T T EXDELIEU ID VEL IIIdHIEU. LIE LIIdIdLIEIS dIE VELV LONLEMEU WIL



Section 1: Key Vocabulary		
Tier 3 vocabulary Definition		
Anaphora	repetition of a phrase at the start of a line or sentence	
Assonance	words that share the same vowel sound	
Caesura	a pause in a line of poetry	
Enjambment	where a line has no punctuation at the end and goes onto a new line, but carries on an idea	
Motif	a repeated idea or theme throughout the poem	
Sibilance	Making a 's' or 'sh' sounds	
Plosive	Making a 'p' or 'b' sound	

Tier 2 vocabulary	Definition
Stanza	a section of a poem sometimes referred to as a verse.
Rhyme scheme	what type of pattern the rhyme follows e.g abbcca
Rhythm	the beat or pace of the words. It can be regular or irregular, slow or fast
Poetic persona	when the poet takes on a voice in the poem.
Repetition	repeating the same word or phrase

Section 2: Comparing poems

Compare the poet's use of language and structure in *Hurricane Hits England* and *Blessing*.

Comparing poetic techniques

Hurricane	Blessing
Simile to depict the weather e.g. 'trees falling heavy as whales'	Simile to depict the weather e.g. 'skin cracks like a pod'
Semantic field of nature	Semantic field of poverty
No structured rhyme scheme	No structured rhyme scheme

Comparative connectives to use in your writing

Similarities	Differences
Likewise	However
Similarly	On the other hand
Equally	In contrast

Section 3: Information about some of the poets



Grace Nichols is a poet whose work has been central to our understanding of the important cultural Caribbean-British connection for nearly 3 decades. Nichols was born in Guyana in 1950, and moved to live in the UK in 1977. Her work is influenced by the history and culture of her homeland, in particular the oral story-telling tradition with its fantastic folk tales, the landscape and its rural tasks and the history of enslavement.



Kamu Braithwaite was born in Barbados, an island in the Caribbean. Brathwaite's ambition was to create a distinctively Caribbean form of poetry, which would celebrate Caribbean voices and language, as well as African and Caribbean rhythms evoking Ghanaian talking drums, calypso, reggae, jazz and blues.

English: Romeo and Juliet by William Shakespeare



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Patriarchy	A system of society or government in which men hold the power and women are largely excluded from it	
Symbolism	The idea that words, phrases and images can represent other things	
Authority	The power or right to give orders, make decisions, and enforce obedience	
Maternal	Having the stereotypical characteristics of a mother	
Determinism	The theory that everything in life is pre-decided and pre-planned.	
Unrequited Love	Unrequited love or one-sided love is love that is not openly reciprocated or understood as such by the beloved	
Elizabethan Era	The time in the Tudor period of the history of England during the reign of Queen Elizabeth I	
Tier 2 vocabulary	Definition	
Foreshadowing	To hint at something that will happen later in the play	
Stage Directions	An instruction in the text of a play indicating the movement, position, or tone of an actor	
Sonnet	A poem of 14 lines, in English typically having ten syllables per line	
Prologue	An opening speech that introduces key themes within the play	
Soliloquy	A speech delivered by a character that the other characters do not hear	

Use the CPEAT format to write analytically about Shakespeare's play. C CONNECTIVE Firstly, moreover, furthermore, in conclusion. P POINT Use the wording of the question and identify what your

Section 2: Key Skills/Strategies

Ρ	POINT	and identify what your paragraph will explore.
Ε	EVIDENCE	Find a relevant quotation and identify a language or structural device in it
Α	ANALYSIS and then explore the deeper meaning of this quote/techniq and how it links to the question	
т	THINK INTENTION AND IMPACT	Explore the intentions of the author and the effect/impact of this on the reader.

FEATURES OF A TRAGEDY

Tragedy: A play dealing with tragic events and having an unhappy ending, especially one concerning the downfall of the main character/s.

The Tragic Hero:

The tragic hero describes a virtuous character who must face adversity, either caused by their flawed persona or sealed by fate. Ultimately, they pay the price with their lives, but after recognising their mistake.

The Fatal Flaw: Hamartia

The tragic hero's flaw, that leaves them vulnerable and causes their disastrous end.

Tragic Waste:

Often the inevitable deaths of pivotal characters in the play.

Catharsis:

The audience's immersion in the play leads to an emotional roller coaster, with mixed feelings for the hero and their antagonists. The ending of the play leads to a release of often very conflicting emotions for the audience.

Section 3: Context and Themes

Verona

R&J is set in Verona, Italy in the fourteenth century. Verona was a rich, lively, cultured city but it had been affected by violence for centuries. Political and religious leaders clashed over power, wealth and status and often the citizens had to take sides.

Women & gender roles

Society was patriarchal: men were dominant and women were seen as inferior and expected to marry as young as twelve years old. Noblewomen like Juliet would have received some education but there was little freedom of choice in life for most women.

Queen Elizabeth I

The Queen while Shakespeare was writing. Elizabeth I made Protestantism the official religion of England, which angered many Catholics, and led to much conflict. Shakespeare may be referencing this in 'Romeo and Juliet', with the two warring families.

Nurses

Nurses were employed by wealthy families to feed and care for their children.

Fate

The belief that your life is mapped out for you, or 'written in the stars'. Many Elizabethans believed God decided your fate, and that astrology could help you identify your course in life.



KEY THEMES IN THE PLAY Conflict, Power, Fate, Loyalty, Family, Religion, Love, Hatred, Violence, Death

IF YOU ENJOYED ROMEO & JULIET THEN READ THESE

<u>NexT:</u> Noughts and Crosses – *Malorie Blackman* Twelfth Night – *William Shakespeare* Daz 4 Zoe – *Robert Swindells* Wuthering Heights – *Emily Bronte*

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Year 9

Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Prejudice	A liking or a dislike for someone or something, usually without good reason	
Injustice	A lack of fairness	
Exploitation	The action of treating someone unfairly in order to benefit from them	
Vulnerability	Being exposed to the possibility of being attacked or harmed, either physically or emotionally	
Thriller	Thriller is a genre of fiction which is characterised by giving readers heightened feelings of suspense, excitement, surprise, anticipation and anxiety.	
Morality	The belief that some behaviour is right and acceptable and that other behaviour is wrong.	
Trauma	A deeply distressing or disturbing experience	
Tier 2 vocabulary	Definition	
Dual Narrative	A story that is told from two different perspectives.	
Colloquialisms	Colloquial language is casual, informal and conversational.	
Morality Tale	A story or narrative from which one can derive a moral/lesson about right and wrong.	
Protagonist	The leading character In a novel.	
Antagonist	The opponent of the protagonist in a novel.	

English: Stone Cold by Robert Swindells

Section 2: Key Skills/Strategies				
ι	Use the CPEAT format to write analytically about Shakespeare's play.			
	С	CONNECTIVE	Firstly, moreover, furthermore, in conclusion.	
	Ρ	POINT	Use the wording of the question and identify what your paragraph will explore.	
	Ε	EVIDENCE	Find a relevant quotation and identify a language or structural device in it	
	Α	ANALYSIS	and then explore the deeper meaning of this quote/technique and how it links to the question.	
	Т	THINK INTENTION AND IMPACT	Explore the intentions of the author and the effect/impact of this on the reader.	

Features of Thriller Novels

Suspense, Surprise and	Climax	Plot Twists and Cliff-hangers
Anxiety	Thrillers generally	
	build towards a key	A plot twist is
The two	moment, in which	when the
seemingly	all of the suspense	narrative changes
distinct	built over the	from what the
narratives in	narrative are	reader would (e.g.
Stone Cold draw	released in one	Ginger's murder).
closer together,	scene. This is the	Cliff-hangers are
making the	case when Shelter	also used to keep
reader feel	attempts to murder	the reader
anxiety for poor	Link.	interested.
Link!		

Section 3: Context and Themes

Robert Swindells

Robert Swindells is an English writer who was born in Bradford on March 20th 1939. He served in the Royal Air Force, before becoming a primary school teacher. It was at this time that he began writing novels, which he later took up full time. Swindells has stated that he feels 'constantly aware of the presence of injustice in the world', and that he tries to 'point out various manifestations of injustice... which exist in our society.' He draws upon these ideas in Stone Cold.

Homelessness

The latest data shows that on any given night, there were an average of 2440 people sleeping rough in the UK. Remember this is on any given night, so the number who slept rough over the course of a year is likely to be many times more. A study by the Evening Standard showed that more than 7,500 people slept rough in London at some point in 2015. This included 880 under 25s.

The Armed Forces

The British Armed Forces are the military services responsible for the defence of the United Kingdom. They include the British Army, the Royal Navy, the Royal Marines, and the Royal Air Force. Service members can be discharged from service for a variety of reasons. A dishonourable discharge (DD – language more often used in the US military) is handed down for an offence that the military considers to be exceptionally poor conduct. Some members are also discharged on physical/ mental health grounds.

Key themes in the novel

Threat – Homelessness – Injustice – Hopelessness - Exploitation, Vulnerability-Prejudice

English: Survival



Section 1: Key Voc	abulary
Tier 3 vocabulary	Definition
Autobiography	A self-written account of one's life
Bias	A disproportionate weight in favour of or against an idea or thing
Emotive language	Word choices that are intended to get an emotional reaction
Exposure	The state of having no protection from something harmful
Graphology	The visual appearance of a text
Survival	the state of continuing to live or to exist, especially after a dangerous event
Tabloid	A newspaper which uses informal language and many pictures
Tier 2 vocabulary	Definition
Alliteration	Using the same letter at the start of closely connected words
Hyperbole	Language used to exaggerate information
Metaphor	A comparison where something is described to be something it is not
Secondary story	A less important story featured on the front cover of a newspaper
Sensationalism	The presentation of stories in a way that is intended to provoke the reader

Section 2: New Key Skills/Strategies			
This will help you understand and explore key questions.			
Р	Purpose	Is the writer trying to inform, entertain, explain, persuade or argue?	
А	Audience	Who is the target audience? Who would this text appeal to?	
F	Format	What are the key conventions of the text?	
т	Tone	What is the general attitude or mood of the writing?	

When comparing the similarities and differences of nonfiction texts, you will need to use comparative phrases to structure your response:

Similarities	Differences
Similarly	Alternatively
In addition to	However
Furthermore	Nevertheless
Moreover	In contrast to
This is mirrored in	Conversely
Likewise	On the contrary
A common feature is	On the other hand

TOP TIP: Use a table format to plan your comparison of two non-fiction texts and consider the following features:





Maths: Multiplicative Relationships



Section 1: Key Vocabulary		Section 2: Repre
Tier 3 vocabulary	Definition	A double num related. The fu
Multiplicative relationship	A relationship between two quantities whereby the values are linked by a constant multiplier, of the general form y = ax	other, and can The scalar mul proportion. Bc
Additive relationship	A relationship between two quantities whereby the values are related by the addition of a constant, of the general form y = x + a	0
Functional multiplier	Is the multiplier that links two quantities, it is the 'a' in the general form y = ax	0
Scalar multiplier	Is a number that moves <i>along</i> lines in a double number line, that is, stays within the same variable.	Using the func Since 48 = 4 x
		So, ? = 4 x 8 = 3
Tier 2 vocabulary	Definition	Using the scala

vocabulary	Definition
Rate	The ratio between two related quantities <i>in different units.</i>
Scaling	Enlarging or reducing a value by multiplying by the scalar multiplier.
Ratio	A way of comparing values between two (or more) quantities.
Proportion	A statement that expresses two ratios as equal.

esentations nber line shows the how two variables are unctional multiplier moves from one line to the n be used to convert between the variables. Itiplier moves along each line by the same oth can be used to find missing values:



12, we see that the functional multiplier is 4. 32.

lar multiplier:

Since 8 = $\frac{2}{3}$ x 12, we see that the scalar multiplier is $\frac{2}{3}$. So, $? = 48 \text{ x} \frac{2}{3} = 32$.

x 3

x 3

3

12

x 4

1

4

A ratio table can be used to structure a multiplicative relationship between two variables. Usually, information is given to fill 3 of the cells, and the 4th x 4 can be found using multiplicative relationships between the rows (functional) or the columns (scalar).

Section 3: Examples

Both the bar model and double number line representations can be helpful when working with proportional problems:

On this double number line, the 10 and 6 align perfectly.



What other pairs of numbers will also line up in the same way?

Since 10 and 6 align, we can express the proportionality of the two variables as 10:6. Scaling this ratio by factor $\frac{1}{2}$ gives 5 : 3 as the simplest form. Any multiples of this ratio give other integer pairs: 15:6, 20:12, 25:15 etc.

Mark and Ahmed share some sweets in the ratio 1:3. Ahmed has eight more sweets than Mark. How many does Mark have?



The ratio 1:3 is shown as 1 bar and 3 bars in the model. The difference of 8 is represented by the two extra bars that Ahmed has. 2 bars are worth 8, so 1 bar is worth 4. Mark has one bar, so Mark has 4.

Maths: Probability



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Sample Space	The collection of all possible outcomes	
Conditional Probability	The probability of something happening based on the occurrence of another event	
Dependent events	Those which depend on what happened in a previous event	
Independent events	Those which do not depend on an event which has happened before	
Mutually Exclusive Events	Events which cannot happen at the same time for example getting a Head and a Tail at the same time	

Tier 2 vocabulary	Definition
Probability	The chance of something happening
Fair	Outcomes have an equal chance of happening
Combined events	Two or more events that are considered to happen together either at the same time or in succession
Desired outcome	The result that is wanted
Listing	Writing down all the options/information.

Section 2: Representations and procedures



Probability of a single event:

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Probability = \frac{Number of desired outcomes}{Number of possible outcomes}
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the probability of rolling an even number on a fair dice

Desired outcomes are even numbers 2,4 and 6 (three of them)

Possible outcomes are the numbers 1 to 6 (six of them)

so Probabilit $y = \frac{3}{6}$, which simplifies to $\frac{1}{2}$

Listing strategies

Systematic listing strategies are ways of writing outcomes from an event in an organised way with none of the possibilities missed out or repeated.

To do this we need to use a method which makes listing items easier. A good method to use is to fix certain values, making only small changes between each item in the list.

A meal deal consists of a drink and a bag of crisps. Drinks – O and A

The drinks available are orange juice or apple juice.

The crisp flavours are bacon, cheese or plain.

Crisps – $B,\,C$ and P

Start by fixing the choice of drink to O and then change the crisp flavour. Now change the drink flavour and repeat the crisp flavours in the same order as before.

O, B	A, B
O, C	A, C
O, P	A, P

This gives us 6 combinations in total.

Probability of two or more events:

To determine the probability of two independent events, we have to **multiply** the probability of the first event by the probability of the second event.

$$P(A \text{ and } B) = P(A) \times P(B)$$

Sample space diagrams

Sample space diagrams are useful for listing all possible outcomes of two events.

This sample space diagram shows the possible outcomes when 2 dice are rolled and are added together.



Venn diagrams

Ven diagrams help us to organise information that overlaps.



Maths: Percentages and Proportionality



Section 1: Key Vocabulary		Section 2: Representations	Section 3: Procedures	
Tier 3 vocabulary Direct proportion	Definition When one value increases so does the other. One of the values is a multiple of the	We can utilise a double number line to work with percentages. By making the original value equal to 100%, we can partition the number line to find other percentage:	To increase a value by a given percentage, we can start by thinking about scaling from the original value (100%), down to find 1% and then scale up to a percentage larger than 100.	
	other value	10% 20% 30% 40% 50% 60% 70% 80% 90% 100%	Example questions – Increase £80 by 20%	
Inverse proportion	When one value increases and the other decreases	We can use all of our existing skills in scaling numbers in when working with percentages.	0.8 80 96 x120	
Scalar multiplier/ Scale factor	Is a number that moves <i>along</i> lines in a double number line, that is, stays within the same variable	Example question - What is 45% of 360?	1% 100% 120% ÷100	
Functional multiplier	Is the multiplier that links the two quantities	x 45 x 45 1% 45% 100%	Numerically, our procedure is: 80 ÷ 100 x 120 Which is the same as:	
Tier 2 vocabulary	Definition	÷ 100	80 x 120 ÷ 100 or 80 x $\frac{120}{100}$ or 80 x 1.2 Here we arrive at the most efficient method for	
Percent	A proportion that shows a number as parts per hundred. The symbol % means 'per cent'	Likewise, we can use scaling to express one amount as a percentage of another.	increasing a value by a given percentage, the multiplier method.	
Percentage Increase	Adding a given percentage of a value to the original value	Example question – What is 22 out of 40 as a %?	80 96 ↓ ↓ ↓ 100% 120% × 1.2	
Percentage Decrease	Subtracting a given percentage of a value from the original value	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	A proportionality table is an even more efficient	
Proportion	Two or more quantities that increase or decrease at the same rate	2.5% 55% 100% ÷ 40	100% 120% way to represent this procedure.	

Year 9 Spring 1

Tier 3 vocabulary	Definition	
Eukaryotic	A cell with a nucleus is eukaryotic.	
Chromosome	A structure found in the nuclei of cells. Each chromosome contains one enormously long DNA molecule.	
Cell membrane	The membrane that controls what goes into and out of a cell.	
Cell wall	A tough layer of material around some cells, which is used for protection and support.	
Nucleus	The 'control centre' of a eukaryotic cell. Contains DNA.	
Mitochondria	Subcellular structure (organelle) where aerobic respiration occurs.	
Cytoplasm	Jelly like substance where chemical reactions take place.	
Chloroplasts	Green disks containing chlorophyll. Site of photosynthesis.	
Ribosomes	Tiny structures where new proteins are made.	
Vacuole	A storage space in the cell for cell sap. Helps keep the cell rigid.	
Chloroplasts	A gree disk containing chlorophyll. Site of photosynthesis.	
Chlorophyll	The green substance inside chloroplasts. Ilt traps energy transferred by light.	
Diploid	Describes a cell that has two sets of chromosomes (2n)	
Haploid	Describes a cell that has one set of chromosomes	
Acrosome	A small section in the tip of a sperm which contains enzymes.	
Flagellum	A tail-like structure that rotates allowing a unicellular organism to move.	
Prokaryotic	A cell with no nucleus	
Plasmid	A ring of DNA	
Objective lens	One of the parts of the microscope that magnifies the specimen	
Eyepiece lens	The part of the microscope that one looks down. It also magnifies the specimen	
Magnification	How much bigger something appears compared with its actual size	
Resolution	The smallest distance between two points where they are seen as two points.	

Science : Biology Topic 1



ection 3	re			
A scientist observed a cell using an electron microscope. ne size of the image was 25 mm. The magnification was × 00 000.				
alculate the real size of	the cell in micrometres.			
nillimetres. On a photo	of a real red blood cell is 0.008 graph, the diameter of the red tres. Calculate the magnification.			
reamlined shape ucleus large number of mitochondria re arranged in a spiral around e top of the tail, to release lots e energy to power the tail.	The tip of the head contains a small vacuole called the acrosome . It contains enzymes that break down the substances in the egg cell's jelly coat. This allows the sperm cell to burrow inside. The tail waves from side to side, allowing the sperm cell to swim.			
The cell membrane fuses with the sperm cell membrane. After fertilisation, the cell membrane	The jelly coat protects the egg cell. It also hardens after fertilisation to ensure that only one sperm cell enters the egg cell.			
membrane becomes hard to stop other sperm cells entering	The cytoplasm is packed with nutrients to supply the fertilised egg cell with energy and raw materials for the growth and development of the embryo.			

Year 9 Spring 1



Section 1: Key Vocabulary				
Tier 3 vocabulary Definition				
Chromatography	Carried out by spotting drops of the samples onto paper, and then allowing a solvent to move up the paper. Different components in the samples travel up the paper in the solvent at different rates.			
Chromatogram	The piece of paper showing the results of carrying out chromatography on substances.			
Stationary phase	The surface through which the solvent and dissolved substances move in chromatography.			
Mobile phase	In paper chromatography, the solvent that moves along the paper carrying the dissolved samples with it.			
R _f value	The ratio of the distance travelled by the solute on a chromatogram (measured from the centre of the spot) to the distance travelled by the solvent under the same conditions.			
Potable water Drinking water				
Chlorination The process of adding chlorine to a substance, often to water.				
Sedimentation	The process in which rock grains and insoluble substances sink to the bottom of a liquid.			
Distillation	The process of separating a liquid from a mixture by evaporating the liquid and then condensing it.			
Distillate Something formed by distillation				
Condenser Apparatus for condensing vapour				
Filtrate	Liquid that has passed through a filter			
Crystallisation	Separating the solute from a solution by evaporating the solvent			

Section 2: New Knowledge/Skills Creating a chromatogram and calculate Rf values



Rf values can be used to identify unknown chemicals. The Rf value is always the same for a particular substance.

The Rf value = distance moved by spot/distance moved by solvent



In the above example Rf value = 4.0/5.5 = 0.73

Making potable water





evaporating basin

boiling water

gauze

Chromatogram homework task:

П



Science: Chemistry 2



Section 1: Key Vocabulary				
Tier 3 vocabulary	Tier 3 vocabulary Definition			
Abundance	Amount			
Atomic number	The number of protons in the nucleus of an atom (symbol Z)			
Mass number	The total number of protons and neutrons in the nucleus of an atom (symbol A).			
lsotopes	Atoms of an element with the same number of protons (atomic number) but different mass numbers due to different numbers of neutrons.			
Relative atomic mass (RAM)	The mean mass of an atom relative to the mass of an atom of carbon-12, which is assigned a mass of 12. The RAM of an element is the mean relative mass of the isotopes in the element.			
Electron	Tiny particle with a negative charge that is found in shells around the nucleus of an atom			
Electron shell	Electron shell Area around a nucleus that can be occupied by electrons, usually drawn as a circle			
Neutron	Electrically neutral subatomic particle found in the nucleus of most atoms.			
Proton	roton A positively charged subatomic particle in the nucleus of all atoms.			
Subatomic particles	The smaller particles that make up atoms – protons, neutrons and electrons.			
Electron configuration	The arrangement of electrons in shells around the nucleus of an atom.			

Section 2: New Knowledge/Skills

Atomic Structure

The nuclei of atoms contain subatomic particles called protons and most also contain neutrons.



The masses of subatomic particles are very tiny. Instead of writing their actually masses in kilograms, we often use their relative masses. The mass of electrons is very small compared with protons and neutrons. Since a nucleus contains protons and neutrons, most of the mass of an atom is concentrated in its nucleus.

Subatomic particles	Relative mass	Relative charge	Position in atom
Proton	1	+1	Nucleus
Neutron	1	0	Nucleus
Electron	1/1835	-1	Shells

Calculating numbers of subatomic particles

The symbol for an atom can written to show its mass number at the top

and its atomic number at the bottom.



To calculate the numbers of subatomic particles in an atom use its atomic number and mass number

Number of protons = atomic number Number of electrons = atomic number Number of neutrons = mass number - atomic number

Section 3

Calculate Relative Atomic Mass Chlorine naturally exists as two isotopes, chlorine-35 and chlorine-37. The abundance of chlorine-35 is 75% and the abundance of chlorine-37 is 25%.

To calculate the relative atomic mass of chlorine:

RAM =

total mass of the atoms the number of atoms

$$\frac{(75 \times 35) + (25 \times 37)}{100}$$
 35.5

The answer is closer to 35 than to 37. This is because the chlorine-35 isotope is much more abundant than the chlorine-37 isotope.

=

Electron configuration

Electrons occupy shells starting with the innermost one

Electron shell	Max number of electrons	
First	2	
Second	8	
Third	8	

The electron configuration of sodium, Na is 2.8.1. This shows that it is in period 3 because it has 3 shells. It is in group 1 because it has 1 electron in the outer shell.

Homework task

40	24	40	
Ca	Mg	Ar	
caldum	magnesium	^{argon}	
20	12	18	
19	27	31	17
F	Al	P	
fluorine	atuminium	phosphorus	
9	13	15	

Magnitude

gradient

Science: Physics Topic 1. Motion



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	A
Scalar quantity	A quantity that has a magnitude (size) but not a direction	
Vector quantity	uantity A quantity that has both a size and a direction	
Velocity	The speed of an object in a particular direction.	
SpeedA measure of the distance an object travels in a given time.		
Displacement	cement The distance travelled in a particular direction.	
Acceleration	A measure of how quickly the velocity of something is changing.	
Momentum A measure of motion, mass multiplied by velocity. Momentum is a vector quantity.		С
Tier 2 vocabulary	Definition	

The size of something, such as the

size of a force or the measurement

A way of describing the steepness of a line on a graph in numbers

of a distance

ection 2: New Knowledge/Skills

All measurements are either scalar or vector quantities

Measurement	Scalar	Vector
Distance	Y	
Speed	Y	
Velocity		Y
Acceleration		Y
Weight		Y
All forces		Y
Energy	Y	

Calculating speed and acceleration

(average) speed (m/s) = $\frac{\text{distance (m)}}{\text{time taken (s)}}$

acceleration $(m/s^2) = \frac{\text{change in velocity } (m/s)}{\text{time taken } (s)}$

When objects fall they accelerate due to the gravitational field on Earth. The values for these quantities are

Acceleration due to gravity is 10 m/s^2

Gravitational field strength is 10 N/kg

Section 3: Skills



The graph shows a lift moving up at a constant speed (a), slowing to a stop (b) and waiting at a floor (c) then accelerating downwards (d) and then travelling downwards at a constant speed (e)

Distance travelled

The distance travelled can be worked out from a velocity time graph by calculating the area under the graph for the period you are measuring.

Science: P3 Physics Topic 2. Motion & Forces (Newton's Laws) Year 9 Spring 1



Section 1: Key Vocabulary		Section 2: New Knowledge/Skills	Section 3: Other subject specific things	
Tier 3 vocabulary	Definition	Newton's laws of motion	3rd Law Forces come in pairs. The action force and reaction force.	
centripetal force	A force that causes objects to follow a circular path. The force acts towards the centre of the circle.	1st Law If the resultant force on an object is zero (balanced forces), then it will; • Be stationary • Or moving at a constant velocity	These are; Equal in size Opposite in direction	
inertial mass	The mass of an object found from the ratio of force divided by acceleration.	7N	force from ground on dog	
ction–reaction orces	Pairs of forces on interacting objects. Action- reaction forces are always the same size, in opposite directions, and acting on different objects. They are not the same as balanced forces.	What is the car is producing?	force from dog on rope on do	
equilibrium	When a situation is not changing because all the things affecting it balance out.	2nd Law The amount an object accelerates is affected by the	Action-reaction forces force from dog on ground Mass and weight The mass of an object is a measure of how much matter it has. The	
mass	A measure of the amount of matter that there is in an object. a scalar quantity.	acting on and the object's mass. These are shown in the equation;	units are kg. Weight is a measure of the pull of gravity on an object and depends	
weight	The force pulling an object downwards, it depends upon the mass of the object and the gravitational field strength.	Force = mass x acceleration	on; Measured in N The mass of the object The strength of gravity	
Gravitational field strength	A measure of how strong the force of gravity is somewhere. It is the force on a 1 kilogram mass, so the units are newtons per kilogram (N/kg).	mass = 1 kg 10 N $a = \frac{10 N}{1 kg}$	Weight = mass x gravitational field strength If your mass is say 50kg and you were to travel to the Moon you would still have the same mass but your weight would be less	
Free body diagram	A diagram with one simple object shown (circle or box) and all the objects acting on that object.	Moments = 10 m/s ² The turned force on an object Moment= force x perpendicular distance from pivot	because there is a lower gravitational field strength there. Density Density is the amount of mass in a certain volume and can be	
Resultant force	One force (value and direction) that represents all the forces on an object.		calculated by; Density (kg/m³) = Mass (Kg)	
Balanced forces	The resultant force equals zero.	- ·	Volume (m ³)	
Tier 2 vocabulary	Definition	distance	Volume of irregular shapes can Be measured using a	
Velocity	The speed of an object in a particular direction.	force	Eureka beaker $V_{box} = length \times width \times height$	
acceleration	A measure of how quickly the velocity of something is changing.		$V_{box} = I \times w \times h$	

Year 9 Spring 1

Geography: Geography in Action



Tier 3 vocabulary	Definition
Climate change	How the long term average atmospheric conditions change over time.
Conservation	Managing nature to protect it from harm or putting it back how it was (restoration).
Ecosystem	The living and non-living parts of an environment and how they are connected.
Endangered	When a species is threatened and at risk of becoming extinct.
Enhanced greenhouse effect	How people's activities add gases to the atmosphere and this causes the climate to change.
Global warming	The gradual increase in the temperature of the Earth's atmosphere.
Greenhouse effect	The process whereby gases trap heat in the Earth's atmosphere, causing temperatures to increase.
Habitat	The place where an animal lives.
Non-renewable energy	Power sources that will run out eg. fossil fuels such as coal.
Recycling	Reprocessing a product or some of its parts to make something else.
Renewable energy	Alternatives to fossil fuels eg. solar, wind. These won't run out.

Tier 2 vocabulary	Definition	
Sustainability	The practice of using natural resources responsibly, so they can support both present and future generations.	
Social	Things affecting people and their community.	
Economic	Things relating to money.	
Environmental	Things relating to our surroundings.	



Fracking

For –Gas supply Relatively cheap Creates jobs Make places more independent.

Against - Water pollution Earthquake risk Destroys habitats Locals may not benefit.

Renewable energy in Germany

Solar power in Freiburg eg. panels on football stadium and houses. Wind power in Feldheim eg. 55 turbines.

Endangered animals

Loss due to hunting, for medicines, deforestation, climate change.

Coral reefs



Eg. Great barrier Reef, Australia

At risk due to : Fishing, shipping, climate change, tourism and crown of thorns starfish.

Section 3: Geographical Skills

A geographical investigation has seven stages:

1. Decide on the hypothesis. 2. Plan the data collection. 3. Collect the data. 4. Present the results. 4. Analyse the results. 6. Conclusion. 7. Evaluation.

History: WW2 and The Holocaust



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Aryan	People who settled in northern Europe thousands of years ago. Nazis believed they were the 'master race'	
Anti-Semitic	Being hostile or prejudice to Jews	
Holocaust	Usually used to describe the murder of millions of Jews by the Nazis	
Concentration Camps	Places where large numbers of people were kept as prisoners under armed guard.	
Death camp	Killing centres established by the Nazis	
Ghetto	Areas in towns or cities where Jews were separated by force.	
Einsatzgruppen	Special units that conducted mass shootings of Jews	
Terrorism	The use of violence to achieve political aims	
Holy Land	Land on the eastern edge of the Mediterranean around Jerusalem	

Tier 2 vocabulary	Definition
Prejudice	An unfair opinion or judgement or feelings towards someone
Palestine	Country belonging to Palestinian Arabs in the Holy Land
Israel	Jewish state in the Holy Land

Section 2: New Knowledge
Events of World War Two September 1939- Germany invades Poland. Britain declares war on Germany. May 1940- The British evacuate their army from Dunkirk. August 1940- The Battle of Britain begins.
June 1941- Germany invades the USSR. December 1941- The Japanese attack Pearl Harbor. The USA declares war on Japan and Germany. August 1942- Battle of Stalingrad- USSR begins to push the Germans back. June 1944- D-Day- The allies invade France.
May 1945- Germany surrenders. August 1945- Atomic bombs are dropped on Hiroshima and Nagasaki. Japan surrenders.
 The Persecution of the Jews April 1933 - Official one day boycott of Jewish shops, lawyers and doctors all over Germany. 1934- Anti-Jewish propaganda increased. September 1935- The Nuremberg Laws- marriage and sex between Jews and Aryans is banned. Jews no longer citizens. 1936- Anti-Jewish signs are taken down during the Berlin Olympics. 1938- Jewish doctors, dentists and lawyers can't treat
Aryans. Jews have to have a red letter J on their passport. November 1938- Kristallnacht- Nazis destroyed synagogues, Jewish homes and shops. 1939- All Jews had to add the name Sarah or Israel.
 September 1939- Germany invades Poland and begin to create ghettos. June 1941- Einsatzgruppen began the mass murder of Jews, Roma and Sinti using bullets. 1941- The mass murder of Jews and other groups in death camps. 1941- The Wannsee conference where leading Nazis.

1941- The Wannsee conference where leading Nazis discuss the final solution.

1945- The liberation of death camps.

Section 3: Enquiry Questions

What event or events would be considered turning points of WW2?

What did the Holocaust mean in different places and at different times?

Section 4: Source Analysis

When analysing sources consider the following: **Content**- What is happening in the picture, who are the key people, what message is it giving? **Context**- What else is happening at the time? **Purpose**- Why was this photograph taken? **Provenance**- Who took the photo? Who is it the audience?



Picture from 1943

Section 5: Interpretations

How and why historians and others have interpreted the same events and developments in different ways.

For example:

Some historians think Hitler and the leading Nazis were responsible for the Holocaust. It was their idea and they ordered it to be carried out.

Other historians think the Holocaust only happened because of the actions of hundreds of thousands of people from across Europe. Some killed, other just stood and it happened. 21

World Views: Do We need to Prove God's Existence?



Section 1: Key Vocabulary		Section 2: Key Questions	Section 3: Assessment Essay Question:	
Tier 3 vocabulary	Definition	Facts, beliefs and opinions	Assessment Essay Question:	
Evidence	A thing or set of things helpful in forming a conclusion or judgment	Describe the difference between facts, beliefs and opinions. Find out more about the place of interpretation and viewpoints in our views of	Do we need to prove	
Proof	Any evidence that establishes or helps to establish the truth of something.	the world. Consider questions such as: what do we mean by evidence, proof or likeliness in relation to religious questions? Apply	God's existence?	
Interpretation	The meaning assigned to another's creati ve work, action, behaviour, etc.	words like 'evidence', 'proof' 'interpretation' and 'argument' accurately in discussions about God.	In answering the question - you should consider:	
Argument	A course of reasoning aimed at demonstr ating truth or falsehood	The Kalam Argument	 What's the difference between facts, beliefs and opinions? 	
Theology	The study of the nature of God and religi ous truth.	Describe the Islamic argument that God must exist because the universe had a beginning, and must have had a divine cause (the	 Why do Muslims believe in God? Do they believe God can be proven to exist? Why did the Buddha think belief in God 	
Allah	The Arabic word for God in Abrahamic religions.	Kalam Cosmological argument). Find out more about Muslim beliefs in God / Allah. Consider questions about the Muslim experience of prayer, nature and theology which lead Muslims to be sure God /	was unimportant?In Buddhist thinking, what can save us	
Premise	Statement from which another is inferred or follows.	Allah is real. Think of reasons why some people think it is rational and logical to believe in God.	from pain and suffering?	
Conclusion	The proposition established from one or more premises.	Buddhist views on God	Skills checklist – As you write your essay check that you have included	
Valid/invalid	Containing premises from which the con clusion may logically be derived or not: <i>a valid/invalid argument.</i>	Describe Buddhist understandings of the importance of reducing suffering, and the unimportance of dogma about God. Find out more about the Buddhist view of life. Consider questions such as: what	Knowledge – facts and religious or non- religious beliefs,	
Suffering	Pain or distress caused by injury, illness or loss.	matters most to Buddhists? Why did the Buddha refuse to answer 'God-questions'? Think of reasons why some people don't care about	Impact of belief – how it affects what people think and do,	
	Suffering can be physical, emotional/psychological or spiritual.	God at all.	Specialist terms,	
Enlightenment	Knowledge, wisdom, or awakened intellect, of a Buddha. A sudden insight into a transcendental truth or reality.	Buddhist views on Suffering	Sources of authority – where people get their ideas/beliefs from – quotations, Judgement – how strong, valid or sound the	
Karma	The totality of a person's actions and con duct during successive incarnations, that influence their rebirth.	Think about the story of the enlightenment of the Buddha and the effect this had on his life. Think about the idea of being 'enlightened' in life for yourselves. Consider questions about the causes of suffering and how to reduce suffering. Think of reasons why	argument is, Opinion – at least 2 different points of view	
Natural Suffering	Pain or distress caused by natural events such as earthquakes, flood, disease, etc.	Buddhists seek to live without relying on God, but relying on their own effort, mindfulness and practice.		
Moral suffering	Pain or distress caused by the actions of humans such as killing, theft, etc.		22	

French: Projets d'avenir



Section 1: Key Vocabulary/	Questions	Section 2: Gr	ammar
Tier 2 vocabulary	Definition	Modal Verbs Modal Verbs	re follows
Interrogatives	Question words used to seek more information.		pouvoi
Simple future tense	Used to talk about ' will ' happen		to be a to
Conjugation	How a verb changes to show a different subject pronoun and tense	je tu	peux (I can) peux
Regular verbs	Follow a pattern (-er, -ir, -re)	il/elle/on nous vous	peut pouvor pouvez
Irregular verbs	Follow their own pattern	ils/elles	peuven
Time frames	Reference to past, present or future	☆ Je veux aider à la m ☆ Elle peut gagner de ☆ Ils doivent aller à l'é ☆ The noun 'les devoir must do!	
Questions	Translation		
1. Où vas-tu normalement le weekend ?	Where do you normally go at the weekend?	The simple fut	
2. Qu'est-ce que tu fais ?	What do you do?	This tense is used to tal Formation Future stem + future te	
3. C'est comment?	What is it like?		er verb
4. Où es-tu allé(e) le weekend dernier ?	Where did you go last weekend?	je/j'	jouer ai
5. Qu'est-ce que tu as fait ?	What did you do?	tu il/elle/on	jouer as jouer a
6. C'était comment ?	What was it like?	vous joue	jouer o i jouer e z jouer o i
7. Où iras-tu à l'avenir ?	Where will you go in the future?		joueron
8. Qu'est-ce que tu feras à l'avenir ?	What will you do in the future?	☆ For regular the infinitive.	
9. Ce sera comment ?	What will it be like?	☆ The future stem fo without the final -e. ☆ Irregular verbs hav	
10. À l'avenir le monde sera comment ?	In the future what will the world be like?	e.g. avoir- j' au	

Modal Verbs Modal Verbs are followed by the infinitive				
	pouvoir to be able to	vouloir to want	devoir to have to	
je tu il/elle/on nous vous ils/elles	peux (I can) peux peut pouvons pouvez peuvent	veux (I want) veux veut voulons voulez veulent	dois (I must) dois doit devons devez doivent	

la maison. (I want to help at home) de l'argent (She can earn some money) à l'école (They must go to school.) voirs' means 'homework' - something you

nse

talk about what will happen. tense ending

	er verbs	ir verbs	re verbs
je/j'	jouer ai	finirai	attendr ai
tu	jouer as	finiras	attendr as
il/elle/on	jouer a	finira	attendr a
nous	jouer ons	finirons	attendr ons
vous	jouer ez	finirez	attendr ez
ils/elles	jouer ont	finiront	attendr ont

nd -ir verbs, the future stem is the same as

for verbs ending in -re is the infinitive

ave their own **future stem** (verb table) re- je **ser**ai/faire- je **fer**ai /aller- j'**ir**ai

Section 3: WAGOLL

Pour gagner de l'argent, on peut travailler dans le jardin ou faire du babysitting. Moi, je dois aider à la maison, ce que je trouve barbant, pourtant je gagne de l'argent donc le weekend dernier j'ai acheté des billets de cinéma. Ma mère est ingénieure chez Rolls Royce mais je ne veux pas être ingénieure car c'est vraiment fatigant . Le weekend elle est venue au ciné avec moi car elle a trop travaillé !

À l'âge de seize ans, je veux faire un apprentissage ou travailler avec des personnes âgées car je veux aider les autres. À l'avenir j'habiterai à l'étranger où je travaillerai avec des enfants. À mon avis, ce sera satisfaisant. Cependant, mon ami ira en Amérique du Sud où il fera du travail bénévole. Il sera heureux car il a toujours voulu voyager.

Selon moi, le monde sera très différent à l'avenir. Je pense qu'on portera les vêtements intelligents et il y aura

un robot dans chaque maison. Incroyable! Récemment, j'ai lu un article au sujet d'une jeune inventrice. Elle a inventé des lunettes intelligentes pour traduire



en anglais. Elle a même gagné un prix au concours. Ce que j'ai trouvé surtout impressionnant, c'est qu'elle a travaillé seule. Bravo!

À savoir:

D'ici dix ans Ten years from now Dans deux ans In two years time llya There is/are Il y aura There will be Il y avait There was/were C'est lt is It will be Ce sera C'était It was



(D) Quand les poules auront des dents...

'When hens will have teeth'

What is the English idiom/expression for this?

Pronunciation of the future simple tense.

Bemember to pronounce the **er** as *err* in the simple future

le mangerai	→	Je
Nous regarderons		
Vous travaillerez	\rightarrow	V

mang-er-ai lous regard-er-ons ous travaill-**er**-ez

FRENCH Y9 Word list Autun	nn 2.A/ Spring 1.A	FRENCH Y9 Word list Autumn 2	D/ Spring 1.D
l'argent	money	effrayant	frightening
pouvoir	to be able to	en ligne	on line
devoir	to have to	sans	without
aider	to help/helping	avec	with
nourrir	to feed/feeding	une perte de temps	a waste of tome
l'argent de poche	pocket money	en plus	in addition
le maquillage	makeup	agréable	pleasant
gagner	to earn/win	carrément	downright
pour + infinitive	in order to + infinitive	ranger	to tidy/tidying
une mauvaise idée	a bad idea	il y aura	there will be
NCH Y9 Word list Autur	nn 2.B/ Spring 1.B	FRENCH Y9 Word list Autumn 2	.E/ Spring 1.E
continuer	to continue/continuing	devenir	to become/becoming
varié	varied	Je veux devenir	I want to become
dangereux	dangerous	scientifique	scientist
le lycée	secondary school	infirmier/ ière	nurse
un petit boulot	a part-time job	mécanicien/ienne	mechanic
utile	useful	architecte	architect
passionnant	exciting	vétérinaire	vet
le travail bénévole	voluntary work	musicien/ienne	musician
il est infirmier	he is a nurse	instituteur/rice	primary school teacher
elle est infirmière	he is a nurse	policier/ière	police officer
ENCH Y9 Word list Autur	nn 2.C/ Spring 1.C	FRENCH Y9 Word list Autumn 2	.F/ Spring 1.F
à l'avenir	in the future	recevoir	to receive
J'habiterai	I will live	reçu	Received
Je travaillerai	I will work	des vêtements	Clothes
J'achèterai	I will buy	des cadeaux	Presents
J'aurai	I will have	des trucs à manger	things to eat
À l'étranger	abroad	le prix Nobel	the Nobel Prize
Je serai	I will be	(pour) une organisation	(for)a voluntary
J'irai	I will go	bénévole	organisation
Je ferai	I will do/make	continuer les études	to continue/continuing Studies
d'ici dix ans	In 10 years time		
	III TO YEARS UNITE	J'espère + infinitive	I hope to +infinitive

Phonics: on/om		Phonics: in/un	
bon	compliqué	intéressant	un
donner	comme	dessin	brun

Phonics: au/eau/o/ô		Phonics: en/an	
chaud	bateau	ennuyeux	relaxant
poster	hôtel	entendre	amusant

Phonics: ail/aille		Phonics: ill/ille	
travail	paille	gentil	fille
ail	maillot	lentil	juillet

Phonics: liaison with 's' and a vowel	
plus_ennuyeux	moins_intéressant
très_important	je vais_aller

REVISION:

Scan this QR code which links to the French Y9 Quizlet word list folder.



Year 9 Spring 1

Section 2: Grammar



Section 1: Key Vocabulary/Questions			
Tier 2 vocabulary	Definit	ion	
Conditional	-	<i>e.g. ich würde</i> This is used to say what you <i>would</i> or <i>would not</i> do.	
Word Order 3 (WO3)	subord first ve	used in German with a subordinating conjunction. The first verb in the clause is moved to the end of that clause	
WO2 Inversion	senten the sub	<i>e.g. Später möchte ich</i> Where a sentence starts with an adverb, the subject pronoun and verb are swapped	
Clause	0	p of words containing a t and a verb	
Subordinate clause		a clause connected to a main clause that doesn't make sense by itself	
Question		Translation	
1. Hast du einen Teilzeitjob?		Do you have a part time job?	
2. Warum arbeitest (nicht)?	du	Why do(don't) you work?	
3. Wirst du in der Zukunft einen Teilz bekommen?	eitjob	Will you get a part time job in the future?	
4. Hast du ein Arbeitspraktikum gemacht?		Did you do work experience?	
5. Was wirst du nac deinen GCSEs mach		What will you do after your GCSEs?	
6. Wirst du studiere	en?	Will you study?	
7. Was möchtest du Jahren machen?	ı in 10	What would you like to do in 10 years?	
8. Was möchtest du jeden Fall/auf keine machen?		What would you definitely (not) like to do?	

Conditional	The conditional is used with an	
ich würde	infinitive at the	
du würdest +infinitive	end of the	
er/sie/es/man würdestudieren	sentence.	
wir würden …wohnen		
ihr würdetarbeiten	Ich würde im	
sie/Sie würden	Freien arbeiten.	
sie/sie wurden	aber ich würde	
	nie in London	
	wohnen.	
	I would work	
	outside but I	
	would never live	
	in London.	
Modal Verbs	,,	
There are actually 6 modal verbs. He	re is an <i>Eselsbrücke</i>	
for you to remember them!		
<u>Knowing Six Magic Modals Does Wonders</u> können, sollen, mögen, müssen, dürfen, wollen - man: kann, soll, mag, muss, darf, will		
Um Geld zu verdienen, <u>muss</u> man ar In order to earn money, you <u>have to</u>		
Man <u>kann</u> im Ausland arbeiten, um den Lebenslauf zu verbessern.		
You <u>can</u> work abroad, in order to improve your CV.		
lch <u>will</u> einen Job finden, um neue Leute kennenzulernen.		
I <u>want</u> to find a job, in order to meet new people.		
Main clauses and subordinating clauses		
<i>Ich</i> möchte auf jeden Fall im Ausland wohnen, wenn ich älter bin .		
Wenn ich älter bin, möchte <i>ich</i> auf jeden Fall im Ausland wohnen.		

Section 3: WAGOLL

Ich arbeite zweimal pro Woche in einem Café als Kellner, um Geld zu verdienen. Ich mag die Arbeit, obwohl sie manchmal anstrengend ist. In zwei Jahren werde ich als Babysitter arbeiten, um Erfahrung zu bekommen.

Letztes Jahr habe ich ein Arbeitspraktikum in einem Büro gemacht. Ich musste Briefe zur Post bringen und ich musste Kaffee kochen, aber ich durfte nicht mit den Kunden sprechen. Meiner Meinung nach war das sehr langweilig.

Nach meinen GCSEs werde ich bestimmt in die Oberstufe gehen, um mein Abitur zu machen. Dann würde ich gern eine Lehre machen. Ich werde mich wahrscheinlich nicht um einen Studienplatz bewerben, weil ich Geld verdienen möchte.

In zehn Jahren möchte ich vielleicht als Bauarbeiterin berufstätig sein, weil ich sehr praktisch bin. Ich möchte auf jeden Fall nicht nur reich, sondern auch erfolgreich sein. Ich werde auf keinen Fall im Büro arbeiten, denn das ist sowohl langweilig als auch ruhig!

Gut zu wissen!

Click on the QR code to see information on which jobs 14 year olds can do in Germany. Can you understand the questions on the right hand side? Can you see which types of jobs you're allowed to do?



RMAN Y9 Word list Au	tumn 2.A/ Spring 1.A
Lehrer*in	teacher
Bademeister*in	lifeguard
Kellner*in	waiter
Küchenhelfer*in	kitchen hand
Zeitungsausträger*in	paper boy/girl
arbeiten	to work
gearbeitet	worked
verdienen	to earn
verdient	earnt
ich arbeite als	I work as a
MAN Y9 Word list Au	tumn 2.B/ Spring 1.B
umzu	in order to
das Geld	money
die Erfahrung	experience
bekommen	to get/receive/got/received
Spaß haben	to have fun
die Leute	people
neu	new
viel	lots (of)
viele	lots (of)/many
mehr	more
MAN Y9 Word list Au	tumn 2.C/ Spring 1.C
das Büro	office
die Fabrik	factory
die Baustelle	building site
in einem	in a (m/n)
in einer	in a (f)
auf einem	on a (m/n)
auf einer	on a (f)
im Freien	in the open air
draußen	outside
die Schichtarbeit	shift work

GERMAN Y9 Word list Autumn 2.D/ Spring 1.D				
	bestimmt	definitely		
	auf jeden Fall	definitely		
	hoffentlich	hopefully		
	wahrscheinlich	probably		
	vielleicht	maybe, perhaps		
	auf keinen Fall	no way		
	niemals	never ever		
	ich glaube	I think, I believe		
	ich würde	l would		
	ich würde gern	I would like		
GERN	AN Y9 Word list Aut	umn 2.E/ Spring 1.E		
	ich musste	I had to		
	er/sie musste	he/she had to		
	musste nicht	didn't have to (sing)		
	mussten nicht	didn't have to (pl)		
	ich durfte	I was allowed		
	er/sie durte	he/she was allowed		
	durfte nicht	wasn't allowed (sing)		
	durften nicht	weren't allowed (pl)		
	ich wollte	I wanted		
	ich sollte	I was supposed to		
GERN	/IAN Y9 Word list Aut	umn 2.F/ Spring 1.F		
	schicken	to send		
	der Brief	letter		
	die Briefmarken	stamps		
	die Post	post office		
	Kollegen	colleagues		
	der Chef/die Chefin	the boss		
	Kunden	customers		
	bedienen	to serve		
	abwaschen	to wash up		
	aufräumen	to tidy up		

REVISION: Scan the QR code above to access the word lists on Quizlet! This QR code links to all <u>the</u> <u>German Year 9 QUIZLET sets.</u>



Phonics: ch (soft)	
ni ch t	Mil ch
abwas ch en	Tei ch
Chef	modis ch
i ch	s ch le ch t

Phonics: ch (hard)	
no ch	a ch t
jedo ch	Ch or
au ch	Bu ch
se ch s	geda ch t

Computing: The Integrated Project



Section 1: Key Vocabulary		
Tier 3 vocabulary Definition		
Audience	The person/people who the document is aimed at.	
Fitness for Purpose	The design and production of a document which meets the needs of the person who needs it.	
Content	The pieces of information within a document. These could be text, image, diagram, maps, sound.	
House Style	The layout, fonts, colour and images chosen by a particular business or organisation to represent its identity.	
Alignment	The position of text, images and content within a document.	
Proofreading	The task of checking through a document for any errors before submitting it to print/handing in.	
Orientation	The direction the document is displayed in. Landscape (Sideways) Portrait (Lengthways)	
Line Spacing	The amount of white space between typed text on a document.	
Publication	The type of document that has to be produced	

Tier 2 vocabulary	Definition
Check	To identify any issues and errors with work.
Compose	To produce a document piece of work.
Obtain	To gather and use information.
Repeat	To copy a similar action from before.
Research	To gather knowledge about a subject.

Section 2: New Knowledge

Word Processing

Word Processing - This is the name given to a document which is created on a computer, usually using a piece of software such as Microsoft Word or Google Docs. Word processed documents contain primarily text based characters.

Fonts - Fonts are the name for characters word processed onto a document. Arial and Times New Roman are types of font. Font Sizes - Word processed documents are written in fonts no bigger than size 12.

Formatting Tools - Word processed documents can be enhanced using formatting tools. These included *Italics*, **Bold** and <u>underlining</u>. Spell Checking - all word processed documents should be checked for any spelling errors before submitting to final publication. Margins - Margins are areas of blank space at the horizontal and vertical edges of word processed documents. These make the document easier to read.

Print Preview - This tool is used to check what a document looks like before it is sent off to print at a printer.

Presentation

Slides - A slide is the name of the blank space which information goes onto in a presentation.

Layout - Slides can be set into different design choices dependent on the content. This is called the layout.

Animations - This is the name given to content, typically images that move on a slide.

Transitions - Transitions are effects put onto slides to make content move automatically based on different timings. Transitions keep the viewer's attention.

Graphics

Pixels - Graphic images are produced using tiny dots of colour which are called pixels.

Transparency - Graphic images can be set up on canvas setups with no background colour. These are known as transparencies.

File Format - this is the name of the type of graphic file and what it is saved as. JPEG, PNG and BMP are typical graphical file formats.

Desktop Publishing (DTP)

WYSIWYG - What You See Is What You Get, is a term in Desktop Publishing (DTP) for showing what is on screen is what it will look like when it is printed or exported.

Publishing Formats - DTP files can be saved as images or exported as a PDF ready for printing or viewing online.

Section 3: Useful Subject Information

Useful keyboard shortcuts for the project tasks:



In Desktop Publishing (DTP), Word processing and Graphics we work with images. The quality of images depends on the resolution of the image used. High resolution images are often better quality as they contain more detail, but they create larger file sizes through increased memory usage. Lower quality images take up less memory on the computer but they lack the detail.





low resolution

high resolution

Key Timelines in the History of Word Processing, Desktop Publishing (DTP) and Graphics:

Word Processing Software

1978 - first commercial word processing package formally released called WordStar. 1990 - Microsoft Office suite released on sale. 2006 - Google Docs suite released online.

Graphics Software

1985 - Microsoft Paint first formally released as part of Windows 1.0.

1990 - Photoshop 1.0 first formally released on sale. Desktop Publishing Software

1991 - Microsoft Publisher desktop publishing package goes on sale.

PE: Netball

Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Holding Space	Using your body to protect a space you want to move into.	
Interception	Deflecting or catching the ball whilst it is on route to another player.	
Repossession	Catching, dropping and then re- catching the ball.	
Rebounding	Trying to reclaim the ball after an attempted shot at goal.	
Driving onto the ball	Sprinting towards the ball when receiving a pass.	
Throw-up	Method used to restart the game after two players simultaneously commit a foul.	
Double Lead	Two players running out at an angle in different directions to give two passing options to a player in possession of the ball.	

Section 2: New Knowledge/Skills

Within the netball module you will learn about :

Tactics used at the centre pass – both in terms of attacking and defending the centre pass in order to try and maintain/win possession of the ball. Think about why it is important to keep possession of the ball during your own team's centre pass.

The correct technique for defending a shot at goal. Know where to move to in order to rebound a shot and then try to regain possession of the ball. Why is this important?

Holding space – you will be able to demonstrate the correct technique and know when to throw the ball to a player who is holding space. Can you identify when this technique would be effectively used?

Intercepting the ball - focusing on the correct technique and being able to intercept a pass without causing contact. Can you identify key points of how to carry out this technique?

Driving effectively onto the ball by running out at an angle, using a change of speed and direction and looking at double leads to help maintain possession of the ball.

PE: Hockey

Continue 1. Kou Vasahular

	/ocabulary
Tier 3 vocabulary	Definition
Penalty corner	An attacking set piece with the attackers lined up outside the circle and the defenders on the goal line.
Injection	Passing the ball into play from the penalty corner.
25m hit	Hockey's version of football's corner when a defender hits the ball behind their own goal line.
Jab tackle	A one-handed effort to reach in and knock the ball away from a dribbling player.
Section 2: New	Knowledge/Skills
rules such as pena You will develop y ways to score wh Part of your devel you may be asked captain a team or As you go through some of these qui - Explain the blo - Why is player - Where	h the lessons, you should be able to answer estions: In the difference between the jab tackle and bock tackle? Is a penalty corner awarded and how do the s line up for it to be taken? Is (exactly) is a 25m hit take from? are your options if you find yourself dribbling

PE: Volleyball

Tier 3 vocabulary	Definition
Set	Passing the ball from in front of the forehead using the fingers and thumbs of both hands.
Dig	Passing the ball with the forearms - between the wrists and the elbows.
Spike	Volleyball's version of the smash - hitting the ball firmly over the net making it difficult for the opponents to return.
Block	The best defence against the spike is to jump up with both hands at the net to try to stop the ball coming over to your side.
Serve/service	The start of the rally can be done underarm or overarm. It must be taken by the player at the back right side corner.
Sideout	This is when the service transfers to the other team and the players move to a new position by rotating in a clockwise direction.
Section 2: New	/ Knowledge/Skills
sport which is hu You will learn the in a 4v4 game.	ble to answer these questions as you go
sport which is hu You will learn the in a 4v4 game. You should be at through your vol	gely popular among Key Stage 4 students. e key rules and skills to enable you to take part ole to answer these questions as you go leyball module:
sport which is hu You will learn the in a 4v4 game. You should be at through your vol Give 3 points of t	gely popular among Key Stage 4 students. e key rules and skills to enable you to take part ole to answer these questions as you go leyball module: technique for performing a set.
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sport which is hu You will learn the in a 4v4 game. You should be at through your vol Give 3 points of t Why should a pla Give 3 points of t How many shots How many playe	gely popular among Key Stage 4 students. e key rules and skills to enable you to take part ole to answer these questions as you go leyball module: technique for performing a set. ayer try to set the ball rather than dig it? technique for the dig? is a team allowed to get the ball over the net?

PE: Rugby

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Touch judge	An important officiating role which you may need to take on in lessons.
Gain line	An imaginary line across the pitch where the breakdown occurs.
Conversion	Kicking over the bar for after a try is scored.
Drop kick	A half-volley kick to start the game.
Drop goal	A drop kick over the posts.
Kick for touch	Kicking the ball off the side of the pitch when your team is under pressure.
Props	Two forwards that support the hooker in a scrum.
Hooker	The forward who goes in the front middle of the scrum and tries to hook the ball with their feet.
Fly-half	A back who receives the ball from the scrum-half and decides how the backs will attack.

Section 2: New Knowledge/Skills

In Year 9 rugby we are working towards playing the full 15-aside version of the games with everyone able to contribute as a back or a forward in a specific position.

Try the following questions to check your knowledge of 15-a-side rugby:

Can you explain the full scoring system in rugby?

How many of the 15 positions on the field can you name?

What is the importance of the 'gain-line'?

How many players make up a full scrum?

Which players do most of the kicking in a game of rugby?

When might a team try for a drop goal?

Where is a conversion taken from?

PE: Table Tennis

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Back spin	Hitting down the back of the ball to make it travel more slowly over the net - a defensive tactic.
Top spin	Hitting over the top of the ball to give it topspin will cause it to dip as it goes over the net - an attacking tactic.
Variation	Doing different things to keep your opponent guessing - playing different shots to different parts of the table for example.
Attack	One playing is usually on the offensive, trying to hit the winning point.
Defence	If your opponent is on the offensive, you made need to adjust your position and your shot selection to effectively defend their shots.
Shot selection	The skill of knowing what shot to use at any point in the game.
Block	A defensive tactic of just putting your bat out to bounce the ball back over the net.
Loop	Playing the ball back high over the net when defending to give yourself time to get ready to defend the next shot.
Backhand flick	An attacking version of the backhand push. Just flick the wrist to add power.

Section 2: New Knowledge/Skills

Year 9 table tennis will provide plenty of opportunity for you to compete with your classmates. As you compete more, you will develop tactical 'answers' to what is happening in the game.

You should be able to recognise when you are in attack and when you are in defence and start to change your shot selection and your positioning.

You will be expected to umpire and keep score for your classmates, being confident in stopping rallies when faults occur.

PE: Gymnastics

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Partners/Pairs	Performing with 1 other student.
Trios/Groups	Performing in a group of 3 or more.
Cannon/ Mirror/ Unison	Performing 1 after the other/performing in time in opposition/performing in time.
Counter balance	Leaning inward or towards a partner or group to support or maintain a balance.
Counter tension	Leaning outward or away from a partner or group to support or maintain a balance.
Weight bearing	Acting wholly or partially as the base of support in a pair or group balance.

Section 2: New Knowledge/Skills

In Year 9 gymnastics, you will be challenged to develop more complex sequences with more people involved and more complex moves. This will not only develop your gymnastic skills, you will need to use good leadership and communication skills to get your group to work as a unit to create and perform the sequence.

Try these questions to check your understanding of Year 9 gymnastics:

Describe a weight-bearing balance as a trio?

Describe a counter-tension position for a group?

Explain how a group of 4 people could perform a counterbalance position?

What qualities does a leader need in order to organise a group into an effective sequence?

PE: Basketball

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Rebound	Catching the ball after a missed shot.
Offensive rebound	Taking a rebound when your team is in attack giving your team another chance to score.
Defensive rebound	Taking a rebound when you are in defence, preventing the other team from having another shot.
Assist	Setting a teammate up to score a basket.
Outlet pass	Making a quick pass out from under your own basket to set up an attack after you have taken a rebound.
Breakout dribble	Making a quick dribble out from under your basket (2 or 3 bounces) to set up an attack for your team.
Officiating crew	The team of officials needed to run a basketball game including a referee, an umpire, a scorer and a timekeeper.
Half court defence	Running back after your team lose possession to defend close to your own hoop.
Section 2: New Kr	nowledge/Skills
full court version of advanced rules and	ar, you will be working towards playing the the game, with some of the more tactics. Hopefully, after your lessons, you er some of the following questions:
What is the backcourt rule?	
What are some of the time limits that players have to be aware of in a game of basketball?	
Why is half-court de	fence played most of the time?
When might a team use full-court defence?	
What makes a good	rehounder and why are they so important

What makes a good rebounder and why are they so important to a team's success?

PE: Health and Fitness

	Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition	
Components of fitness	Our fitness can be broken down into 11 components of fitness which we all possess. Examples include speed, strength, agility.	
Effects of exercise	The short term effects of exercise are changes in the body which occur as a result of physical activity. We should know why they occur.	
Fitness testing	Each component of fitness can be measured by a test. Using fitness tests can help performers to see if their training is having a positive effect on their fitness.	
Circuit training	A method of training which involves exercising at a station then having a rest before moving to the next station.	
Weight training	Using a resistance such as a dumbbell to exercise a specific muscle.	
	How fast our heart beats can be a good	

The Health and Fitness module will give students a good foundation for taking responsibility for their own fitness.

You will look at a variety of ways to measure your own fitness and a variety of ways to improve your own fitness.

Many of the exercises and activities we do can be repeated at home with little or no equipment - you take responsibility!

The unit also provides a taste of some of the content students will experience should they opt for exam PE in KS4.

Try these questions as you complete this module: How many of the major muscles can you name? Can you link 5 components of fitness with their fitness test? Can you list 10 exercises you can do with a pair of dumbbells? Can you list 10 exercises you can do without any equipment? Which heart rate is an important measure of your health?

PE: Running

New Knowledge/Skills

You will use the same running route (3 laps/2200m) to work on endurance and work towards a **personal best** time. You will set your own targets based on previous times and set yourself **interim targets** (lap times and split times) to help you reach your goal.

We will continue to develop our **mental approach** to running by looking at some basic **tactics** (strategies) - when to run faster or when to conserve energy.

To improve our performance we will look at two **training methods** which can be used to improve running: **fartlek and interval.**

Fartlek training means running at different speeds for varying distances whereas interval training involves running a set distance or for a set time and then having a period of rest.

PE: Health and Fitness

New Knowledge/Skills

Our focus on health and fitness across the sports will be on the **components of fitness** and how they are required in different activities.

Question: Can you list the 11 components of fitness?

Hopefully, you will be able to identify the main components of fitness used in any sport you do.

PE: Leadership

New Knowledge/Skills

You will be challenged at times to take on the role of captain and help influence your team's performance.

You may be asked to lead a warm up in front of the class to help develop your confidence to stand in front of and speak to a large group of people.

You will also be given time in some activities to create your own practices for a group of classmates.

Art: Black History



Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Igbo	tribe from Nigeria
Rebellion	uprising against other people
Voyage	journey
Captive	kept as a prisoner
Shackled	chained together
Enslaved	sold and owned by another person
Propaganda	biased information used to spread a message

Tier 2 vocabulary	Definition
Charcoal	drawing media- black , crumbly stick made from burnt wood
Blend	merge tone/colour from one to another
Tone	light and shade
Proportion	comparative measurements



Diagram of slave ship 1801

Section 2: New Knowledge/Skills

We are looking at artists related to Black History. Donavon Nelson made a series of drawings about the Igbo slaves to show the horror of slavery.

Donovan Nelson is a Jamaican artist whose art tells the story of the Igbo Landing. The Igbo Landing is a historic site of one of the largest tragedies involving enslaved people in history. Historians say Igbo captives from modern day Nigeria were purchased for an average of \$100 each by slave merchants John Couper and Thomas Spalding. The slaves arrived in Savannah, Georgia on the slave ship the Wanderer in 1803. The chained slaves were then reloaded and packed under the deck of a coastal vessel, The York, which would take them to St Simons where they were to be resold. During the voyage, approximately seventy five Igbo slaves rose in rebellion, drowning their captors. By their chief's direction, they then walked into the marshy waters of Dunbar Creek, and to their deaths. Local people claimed that the landing and surrounding marshes in Dunbar Creek were subsequently haunted by the souls of the perished Igbo. Blackpast.org

Igbo Landing 2009 Charcoal on paper



Section 3: Slave trade: context.

<u>www.slavevoyages.org</u> – View this website to explore information about the transatlantic slave



This diagram of the 'Brookes' slave ship (bottom right), which transported enslaved Africans to the Caribbean, is probably the most widely copied and powerful image used by those who campaigned to end the trans-Atlantic slave trade. Traders knew that many of the Africans would die on the voyage and would therefore pack as many people as possible on to their ships - in total there were 609 enslaved men, women and children on board this ship. The conditions would have been appalling. Each person occupied a tiny space in the hold. In this case they had to lie in spaces just 10 inches high and were often chained or shackled together in pairs, making movement even more difficult. The cramped conditions meant that there were high incidences of disease. Because of the long distances involved, food and water was rationed and always in short supply or ran out completely.

By April 1787, the diagram was widely known across the UK, appearing in newspapers, pamphlets, books and even posters in coffee houses and pubs. An image had rarely been used as a propaganda tool in this way before and it proved to be very effective in raising awareness about the evils of the slave trade.

Art: Black History



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Tier 2 vocabulary	Definition

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Igbo Landing 2009 Charcoal on paper



Section 3: Adding meaning to the portrait

The next stage after finishing your tonal portrait is to research and draw/paint a background that reflects aspects of the life of your person. Donavan Nelson did this quite simply by showing the story of the Igbo slaves. Another artist that has done this is Frida Kahlo, who used her work like an autobiography to illustrate traumas in her life.



"Kahlo completed this piece in 1940, one year after her divorce from Mexican muralist Diego Rivera. Given the timing of its creation, Self-Portrait with Thorn Necklace and Hummingbird is widely believed to be a reflection of her emotional state following the couple's split. In the painting, Kahlo is positioned in front of foliage and between a stalking panther and a monkey. Around her neck, she wears a necklace made out of thorns and adorned with a seemingly lifeless hummingbird. Though the peculiar accessory draws blood from her neck, her expression remains stoic. This calm approach to pain is typical of Kahlo, who-even when devastated over her divorce—poignantly stated that "at the end of the day, we can endure much more than we think we can." mymodernmet.com

Drama: Brecht



Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Epic Theatre	A range of theatrical devices used to make the audience think.
Didactic Theatre	Theatre that educates and send a message to the audience.
Bertolt Brecht	A German Theatre Practitioner and playwright.
Gestus	A clear character gesture or movement used by the actor that captures a moment or attitude rather than delving into emotion.
Alienation	Familiar contents are presented in an unfamiliar way so that the audience does not empathise with the story of a drama.
Episodic Structure	Scenes are episodic , which means they stand alone and are constructed in small chunks, rather than creating a lengthy and slow build of tension.
Multi-Role	Actors play multiple characters within the same piece of theatre.

Tier 2 vocabulary	Definition
Socio-Political Issues	Issues and political decisions that effect the peoples lives and the world.
3rd Person Narration	Commenting upon a character as an actor is a clear way of reminding the audience of theatricality.
Direct address	The actors speak directly to the audience, sometimes in the form of questions, this reminds the audience that what they are seeing isn't real and forces them to think about what they are watching. This is called 'breaking the fourth wall'.





Pendulums Emporium is a production by local theatre company Maison Foo.

The production explores a wide range of social issues.

Section 3: Links to Prior Learning

In year 7 you studied Greek Theatre and were taught about the role of the narrator. In year 8 you studied Bullying and in year 9, Gangs. You were taught how to explore these issues through different drama techniques. In year 8 you were taught about abstract theatre when devising pieces of theatre about cyber bullying.

Sound effect

Dynamics

Tempo

Music: Computer & Video Game Music



Section 1: Key Vocabulary			
Tier 3 vocabulary	Definition		
Synthesizer	An instrument that can be manipulated to sound like many other instruments or everyday sounds		
Staccato	Music performed with each note sharply detached or separated from the others		
Motif	The music that is associated with a certain character or place		
Syncopation	Playing the music off the beat		
Sampling	Digitally recording music and then reusing it again in another piece		
Soundtracks	The finished piece of music that accompanies the film or game		
Music Technology	Includes MIDI,sound recording, and manipulating software effects		
Chromatic movement	Notes that move up or down a chromatic scale		
Disjunct Movement	When the notes in the melody ascend and descend quickly, with large spaces between the notes		
Tier 2 vocabulary	Definition		
Cues	A point in the music where something significant will occur.		

An artificial sound used in many

films/games...eg a door opening

The speed of a piece of music

Loud or soft

Section 2: New Knowledge/Skills

Character theme motifs.... All characters real or made up will need an on-screen Motif. The Jaws theme portrays a dark and frightening world with the fish as top predator and totally feared by all things. Driving deep bass sounds reinforce the power and strength of the character.

Identity....Look at identity of the character. The music should relate to its surrounding and the dark or light of the environment it lives in but this is focused on the character itself. What can the motif tell you through your ears as well as your eyes.

Using music to create character...The music should be able to get the personality of the character across to the viewer player. It can be both dark or light. Using rhythm to reinforce the mood needed.

Scenario...Look at the Game title and what you have to do. Is it a chase game or a planning game where the music will reflect what's happening on the screen and what you as a player will be doing during periods of the game.

Links to Prior Learning

Soundtracks – Creating music to media and composing on a theme

Keyboard Skills – Using and understanding basic notation and building chords

Form and Structure – How to build a song

Section 3: Other subject specific things

EARLY VIDEO GAMES INCLUDED ... SUPER MARIO 1985



Lesson handout - Treasure Hunter



Lesson handout - Expedition X



Lesson handout - Kid Quick



Year 9 Spring 1

D&T FOOD: Nutrients / ethical awareness (1)



Tier 3 vocabulary	Definition	Tier 2	Definition	SC HO and Sixth Form
Macronutrients	The nutrients needed in larger quantities within the diet. Carbohydrates, proteins	vocabulary Obesity	The state of being grossly overweight.	Section 2: New Knowledge/Skills
Micronutrients	and fats. The nutrients needed in smaller quantities within the diet. Vitamins and minerals.	Diabetes	A disease in which the body's ability to produce or respond to the hormone insulin is impaired, resulting in abnormal metabolism of carbohydrates and	NORMAL ARTERY ARTERY NARROWED BY PLAQUE
Deficiency disease	A health issue related to a lack of one or more nutrients in the diet. E.g. Kwashiorkor, Rickets and Anaemia.	Ethical	elevated levels of glucose in the blood. The ability to recognise moral and ethical	
Dietician	, ,	Awareness issue prod	issues. (In food these are related to the production, preparation and consumption of food products)	
Complex	problems by providing practical advice about food choices, based on scientific research. Also known as starchy carbohydrates.	Dietary recommendati ons	The daily nutritional requirements of individuals that vary depending on a number of factors including age, physical activity level, sex & body size.	The above diagram shows a picture the thickening and hardening of the artery walls. This build of of plaque is called
Carbohydrates	These should make up the majority of a person's carbohydrate intake. Providing slow-release energy.	Recipe Modification	Changing a recipe to suit different dietary needs or preferences.	
Simple Carbohydrates	Also known as sugary carbohydrates. These should be consumed as a smaller proportion of the carbohydrate intake.	Nutrients	a substance that provides nourishment essential for the maintenance of life and for growth.	Section 3
Proteins	Providing fast-release energy. A nutrient provided by meat, fish, diary,	Creaming method	Combining a fat and sugar as the first stage of a recipe to aerate the mixture.	Estwoll Guido
Proteins	nuts. Peas, beans and lentils. Protein is required for growth and repair.	Melting Method	A cake making method where one or more ingredients are melted prior to the	
Saturated Fat	A unhealthier type of fat which can be linked to higher risk of obesity, CHD and type II diabetes if consumed in larger quantities. Predominantly from animal sources.	Dietary Fibre	A form of carbohydrate which can be soluble (e.g. in oats) and helps to lower risk of heart disease, or insoluble in wholemeal products which helps to	
proportion of fatty acid molec	A type of fat containing a high proportion of fatty acid molecules with at least one double bond, considered to		remove waste from the body, reducing the risk of constipation, diverticular disease & colon / bowel cancer	Homework 1: The Google Classroom H&S homework on
	be healthier in the diet than saturated fat. Predominantly from plant sources.	Section 2: New Knowledge/Skills		safety set by your teacher (you can ask your teacher for a paper copy of this quiz if needed).
Marinade	A mixture of oils and spices / herbs in which meat, fish or other ingredients are soaked to absorb flavours and soften proteins before cooking.	The melting method - a cake making method which involves melting margarine / butter before adding it to dry ingredients.		Homework 2: Read the nutritional information on this knowledge organiser then complete the quiz about Fibre on Google Classroom (ask for a paper copy if you need it.)
En papillote	A cooking method where ingredients are cooked and served in a paper or foil wrap.	List 3 other ca 1. 2. 3.	ke making methods -	Homework 3: Design a poster showing additional research into <u>ONE</u> of the ethical issues discussed in class.
		3.		

D&T TEXTILES: Hats off!



Section 1: Key Vocabulary				
Tier 3 vocabulary	Definition			
Top Stitching	A line of stitching that is decorative on the outside of a garment.			
Stay Stitching	A row of stitching that helps to keep fabric in the correct shape. Stops it distorting or ripping.			
Lining	A layer of different material covering the inside surface of something.			
Interfacing	An extra layer of material that is applied to the facing of a garment to add support.			
Crown	The top of a hat. Usually circular.			
Brim	The part of the hat that sticks out at the bottom to provide shade whilst it is being worn.			
Tier 2 vocabulary	Definition			
Recycle	To convert waste into a useable material			
Reuse	To use something more than once			
Reduce	To make a smaller amount of waste			
Refuse	Turning down the use of materials and processes that can harm the environment			
Repair	Can the product be mended so that it have a longer life?			
Rethink	Looking for alternatives to products that are less damaging to the environment			

Section 2: Skills Sewing Patterns

A sewing pattern is a set of shapes that have been drafted to use as templates to cut fabric out. These shapes have been planned and tested to ensure that when you sew them together Crown they will form the garment you want to make!

Sewing patterns are graded, this means that the templates are adjusted to fit different sizes of people. For example the hat you are making comes in a range of sizes small, medium etc

The size of the hat you chose to make will be based on the circumference of your head.

Manufacturing Process for the Hat

- Sew the BRIM to the CROWN SIDE, repeat 4 times 1.
- 2. Match the outside hat sides together, right sides together
- 3. Repeat for the lining pieces.
- 4. Sew each together down the sides.
- Stay stitch around the top of both hats. 5.
- 6. Snip into the top of the hat at 1cm intervals. Make sure not to cut through the stay stitching. Repeat for both hats.
- Pin the outside CROWN onto the top of the outside 7. hat. Repeat for the lining of the hat.
- 8. Machine around the top of the hat for both the lining and outside.
- Put the hats together RIGHT SIDES TOGETHER. 9 Match up the edges and pin in place.
- Sew around the brim, leaving a gap big enough for 10. your hand to get in!
- 11. Turn the hat right sides out through the gap you left.
- Top stitch around the edge of the brim, also sewing 12. up the gap.



Section 3: Knowledge

Textiles and the Environment

Of all industries textiles is the second most pollutant. As designers and consumers we have a responsibility to be aware of the impact it has.

As designers we should consider the environment when picking the materials we will use to make our designs. For example considering using recycled materials, or sustainably produced fabrics.

FAST FASHION has led to a huge increase in the amount of textiles that end up in landfill. There is also the impact of the MANUFACTURE and CARE of the garments during their life. As consumers we have a responsibility to consider the impact our purchases have on the environment.

Some facts to consider:

*2,700l of water is needed to produce 1 t-shirt. This is equivalent to enough drinking water for one person for 2.5 years.

*10% of all greenhouse gases are produced by textile production.

*0.5 million tonnes of MICROFIBRES are released into the oceans each year as a result of washing SYNTHETIC textiles.

The 6 R's

Crown

Side

Brim

Whilst we are all quite familiar with the idea of recycling materials there actually 6 different 'R' words that we can use to consider our impact on the environment.

This is a list of 6 different guidelines that people can use to help them reduce their impact on the environment. These words can be applied by the designer when the they are creating new products or the consider who is looking to decide what to do with a ripped t-shirt!



This is the MOBIUS loop It is the recognised symbol of recycling.

Year 9 Spring 1

D&T Product Design: Systems and Control



Section 1: - Key	Vocabulary	Section 2: Skill	•	Section 2: Now Kny		
Tier 3 Vocabulary					Section 3:- New Knowledge	
Resistor	Electronic component designed to resist the flow of electricity by converting it into heat energy	Soldering	Being able to solder 'of board' components to 'fly wires' Being able to solder 'on board' components to a PCB Be able to solder an integrated circuit to a PCB		eed for a product specification. CCESSFM to write a multipoint, justified	
Capacitor	Electronic component used to store and discharge a small amount of electricity		Soldered joints should be neat, use the correct amount of solder, they should be shiny to avoid 'dry joints'		ming hart programming (coding) to control the of a simulated and real circuit, using the	
Integrated Circuit	Collection of electronic components combined together into a predesigned 'chip', often with a fix program	Follow chart programming	Use electronic CAD software to design a flowchart program which be controlled, and control multiple inputs and outputs	following common f		
Microcontroller	An integrated circuit which can be 'programmed to react to input and output variables		Use electronic CAD software to design a flowchart program which be controlled, and control inputs and outputs	Diotal	Decision - Detect a digital input (on/off) signal to make a YES/NO decision	
Voltage Regulator	Collection of transistors designed to create a 'stable' voltage supply	2D design software	Use CAD software create a themed design, considering suitable and secure location of the PCB, power, and the inputs & outputs		Output – Turn on or off one or more outputs when commanded to	
Flowchart	A changeable program which can be stored on a microcontroller	Application of	Understand the set up requirement needed to laser cut and engrave materials, including the		Wait – Make the program wait for a fixed time until moving onto the next command	
Tier 2 Vocabulary		use of colour to define cut type, and power/speed setting requirements for different		Stop	Stop – End the flowchart program	
Soldering	The process of using a metal with a low melting point to fix two other metal wires permanently together	Product Assembly	materials Create a high quality, fully functioning, electronic product from a collection of parts. Including the use of glues and fixing		te and modify an outline shape	
LED	Electronic component designed to emit light when electricity is passed thought it in the correct direction	Health and	techniques Consistently use a wide range of tools and equipment safety, always using the correct	Use CAD to Cont be laser engrave	tour bitmaps in to line drawings which can	
Wire Strippers	Hand held tool used to remove the protective plastic cover of f the end of wire	Safety Section 4:- WA	PPE	Select	ne between 2 pints	
Side Cutters	Handheld tool used to cut metal wire to length	Powe	a Rad	I Snape I III ril	rc LOCK LOCK he between many	
CAD	Computer Aided Design – Software used to design a product	378	35 2AR			
Laser Cutter	Machine which is controlled by a computer and using high energy light to cut and engrave wood and plastic	CA BE	Red	a lit	ntour Undo/Redo	

Year 9 Spring 1

Definition

lifestyle

Section 1: Key Vocabulary

Tier 3 vocabulary

Independence

Entrepreneur

Financial



Section 2: New Knowledge/Skills Happiness increases as income rises but only to a certain point. According to research carried out by Harvard university when earnings rise beyond around £60,000 per year A state where an individual or household has accumulated there is not much increase in happiness. sufficient financial resources to Other researchers have found that being generous by giving money away e.g. to charity cover its living expenses without results in better feelings of wellbeing and happiness as it triggers the endorphins that having to depend on active employment or work to earn money make us happy - "helpers high". in order to maintain its current The bottom line is that we need enough money to meet our basic needs but beyond that, how we use it can have more of an impact on our happiness. A person who sets up a business or businesses, taking on financial risks **Careers Wheel** in the hope of profit The career wheel exercise is one mechanism to provide students with realistic and pectations about the job and career they are pursuing Business Protective and admin services Money SS Supportive Childcare and finance and education Caring (people and animals) Retail les Health ving rketing Science and maths vitv

High street banks all have support for customers who are worried about money. During the coronavirus pandemic many contacted customers offering help and advice if required.

The citizens advice bureau is a national organisation that

financial problems. There are offices in most towns and also

offers help and advice on all kinds of things including

Section 3: Other subject specific things

Help with money worries:

a website. Advice is free.

Mental health charities such as Mind UK, The Samaritans and Young Minds all have helplines and online advice to support anyone who has any mental health problem, including worries about money. Gamblers anonymous is a charity that supports individuals and families struggling with the effects of gambling.

Tasks:

Give examples of two pieces of advice you would give someone if they were worried about money. Suggest three things that make you happy but don't cost anything.

Research different careers that interest you using these websites.

What qualifications are needed?

What can you do now to help you get these jobs?

https://www.youthemployment.org.uk/careers-hub/ (UK wide)

https://www.gov.uk/browse/education/find-course

(England)

https://www.bbc.co.uk/bitesize/articles/zdgnxyc_(UK wide)

Be an entrepreneur

What would you invent to make life easier, more interesting or more fun for young people your age? Thought shower some ideas and then decide on one that you would like to develop further. How would fund your idea?

> How will you find out if it is something that young people will buy? 38

Financial Personality	Reflects traits and attitudes, such as whether you pay your bills on time, or how you feel about the future.	valid exp
Inflation	A general increase in prices and fall in the purchasing value of money	Busines
Budgeting	Allow or provide a particular amount of money in a budget	Dusines
Vocational	Education or training directed at a particular occupation and its skills	
Tier 2 vocabulary	Definition	Sale: buyir
Debt	A sum of money that is owed or due	& mark
Poverty	The state of being extremely poor	Digita
Poverty Income	The state of being extremely poor Money received, especially on a regular basis, for work or through investments	Digita creativi
•	Money received, especially on a regular basis, for work or through	_
Income	Money received, especially on a regular basis, for work or through investments An occupation undertaken for a significant period of a person's life	_

BE INVOLVED



Year 9 Spring 1 Extra – Curricular Timetable

	Monday	Tuesday	Wednesday	Thursday	Friday
Lunchtime		Anti-Bullying Ambassadors With John L2 12.30 – 1.00 Ambassadors only Girls' Basketball With Leanne Sports Hall 12.15 – 1.00	Scalextric/Hornby Railway Club With Phill T2 12.15 – 1.00 Belper Band With Anna Mu1 12.15 – 1.00 Knit and Crochet Club With Emma T5 12.15 – 1.00	Anti-Bullying Ambassadors event planning With Phil MU2 Week 2 12.15 – 1.00 Lunch Club (by invitation) With Jenny and Carolyn Library 12.15 – 1.00	Chess With Carlos M2 12.15 – 1.00
After School	Recycling/Litter Picking With Marc P2 3.00 – 4.00 District Sports Leadership Events With Matt Sports Hall 3.00 – 4.00 (Various dates, invited leaders)	LGBTQ+/Pride With Karen, Emma and Sally T5 3.00 – 4.00 Music Producers Club With Phil Music Block 3.00 – 5.00 Badminton With Tom Music Block 3.00 – 5.00	Textiles ClubWith SarahT13.00 - 4.00Recycling/Litter PickingWith MarcP23.00 - 4.00Your Time Sports LeadershipWith MattV1With RebeccaSports Hall3.00 - 4.00 (Week 2 only)	Tabletop RPGWith MikeH93.00 – 5.00Girls' NetballWith RebeccaSports Hall3.00 – 4.00Girls' Football FixturesWith LeanneVarious3.00 – 4.00Belper ChoirWith AnnaMu13.00 – 4.00Gardening ClubWith Marc and TonyRosie's Garden3.00 – 4.00Scalextric/Hornby Railway ClubWith PhillT212.15 – 1.00	Computing Club With Adam, Carol, Jamie. L7 3.14 – 4.00 3.14 – 3.00

