Knowledge Organiser Year 9 Summer 2 2023

Create Your Future

"If we all try to be a better friend from time to time the world will be a better place to live in."

Kevin Sinfield OBE

Former England Rugby League player Current Rugby Union Coach



Name:

Tutor Group:



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Science, PE, Art 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.

Classroom Expectations



Everyone Involved. Everyone Engaged

WORK HARD



I am well-prepared for lessons, work hard at every task and take pride in my work

RESPECT FOR ALL, BY ALL



I behave in a way that supports my own and others' learning. I contribute to the positive learning atmosphere in the classroom

SHOW RESILIENCE



I keep trying, even when I find the work difficult.



MAKE A CONTRIBUTION

I offer valid and	well considered
contributions to	lessons.

STRIVE FOR IMPROVEMENT

I have high expectations of myself. I follow advice on how to improve my work.

Beaut	Jul Books
Write in blue or black p	Date and title written and underlined with a ruler
Absolutely no graffiti or doodling in your book	Monday 5th September 2022 Title
	 All work should be neat, tidy and clearly set aut. You book is a record of your work and should be brought to every lesson. There should be no graffiti or doodling either on the cover or inside your book.
your work in a different coloured pen	Vistaria organizer a concert. Each adult trickets are free. Children tickets are free. Some adults and pensioners have workters that give demin to 35% of . 48 of the 280 foldets were for children. 19 of the adults had a vercher. Outy of the adults had a vercher.
All worksheets or loose paper to be stuck down	
Diagrams and tables drawn with a pencil and ruler	4. Mark your work in a different colar. Correct mistakes/ write corrections or annotate.

5. Diagrams or tables should be drawn in pencil, with a ruler.



NOUN The surroundings or conditions in which a person, animal, or plant lives or operates.

How have you used the words this half term?

Words of the Week

Mellifluous

SYNONYMS SWEET-SOUNDING HONEYED SMOOTH

ADJECTIVE: (of a sound) sweet-sounding and musical to hear. ADJECTIVE: combining in such a way as to enhance or emphasise the qualities of each other or another.

SYNONYMS

SUPPORTIVE COMPATIBLE MATCHING HARMONISE

Complementary





Section 1: Key Vocabulary		Section 2: New Key Skills/Strategies	Section 3: Genre Background	
Tier 3 vocabulary	Definition	Plot can be talked about in a number of different ways. This diagram shows one of the most common structures	The Science Fiction genre grew out of the advancement of science and development in areas of astronomy, physics and maths. It is a genre that sparks the imagination and unknown	
Non-Linear	a story told using a non-chronological structure	for a story. PLOT DIAGRAM	frontiers feature heavily which tie to the genre's notions of discovery and exploration. It is a blend of modern scientific	
Analepsis	a literary device in narrative, in which a past event is narrated at a point later than its chronological place in a story. Also known as a flashback	Climax	interests and fantasy where anything is possible. Famous examples of science fiction include: War of the Worlds by H. G. Wells; A Journey to the Centre of the Earth. by Jules Verne and Nineteen Eighty-Four by George Orwell. Science fiction tends to look forward, imagining new technologies,	
Narrative perspective	the point of view a writer uses when telling a story	wo have	worlds and creatures, or exploring the impact that these may have.	
Enigma	a person or thing that is mysterious or difficult to understand		 <u>Discussion Questions</u> Why do you think science fiction remains such a popular genre? 	
In Media Res	in the middle of a story / action	BEGINNING MIDDLE END	 Why do you think science fiction is so often linked with horror? 	
Exposition	a literary device in which the author tells readers what is happening	Possible Structure Questions - Why has the writer focussed your attention on this at	Reading for Context Science Fiction writers often use made up or complex vocabulary to help them set an alien scene. This can make it hard to read, so you often need to use <u>context clues</u> in order to work out what words might mean. 1. Word Parts Break down the different parts of a word—base word (word stem or root word), prefixes, and suffixes—to figure out what it means. 2. Definition/explanation Look for a definition or an explanation within the sentence. 3. Synonym	
Syndetic listing	a list connected with conjunctions	the start? - How does the writer end the piece of writing? - How does the writer create tension?		
Holophrastic	a single word sentence, such as 'Believe!'	Writing about structure		
Tier 2 vocabulary	Definition	When writing about structure, think about it like making a sandwich. I might like a sandwich with ham, mustard and lettuce in it. I might decide to put my bread first, then		
Ambiguous	something that is unclear or uncertain	mustard, then ham, then lettuce and then bread on top of that. That's a conventional sandwich. Now imagine I started with my mustard, and put that on		
Structure	how something has been shaped or put together	the outside of my sandwich – why would I do that? Writing about structure is the same kind of thing why	Words next to the unknown word can be a clue that there is a synonym. 4. Example	
Explore	consider, think about and justify your ideas	has the writer decided to start with the middle of their story rather than conventional beginning? <u>Sentence Starters</u>	Providing examples of the unknown word can give readers a clue to meaning. 5. Antonym/contrast	
Context	the background, individual, social and historical, that we bring to a text	 I think the writer has chosen to start in the middle of the action because I think the writer ended the story on a cliffhanger 	Opposite information about the unknown word can be offset be words and phrases such as unlike, as opposed to, different	
Analyse	focus in depth on how something is done and explain why with justification	 because Perhaps the author used a non-linear structure to 	from. 6. Analogy Comparisons of the word help to determine what it means.	



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'
Sematic field of nature	Semantic field of poverty
No structured rhyme scheme	No structured rhyme scheme

<u>Comparative connectives to use in</u> <u>your writing</u>

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

Section 3: Information about some of the poets

Grace Nichols



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



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: Survival



Section 1: Key Voc	
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			
Th	This will help you understand and explore key questions.		
1	Ρ	Purpose	Is the writer trying to inform, entertain, explain, persuade or argue?
4	Α	Audience	Who is the target audience? Who would this text appeal to?
1	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: Number 2



Section 1: Key Voc	abulary	Section 2: Knowledge/Skills	SCHOOL and Sixth Form Centre
Tier 3 vocabulary	Definition	Ratio notation	Section 2: Knowledge/Skills
Proportion	An equation in which two ratios are set equal to each other	Ratios are written in the form a : b It's important to notice what order the parts of the ratio are written in as 2 : 3 is not the same as 3 : 2.	Direct proportion A babysitter's earnings are directly proportional to the number of
Graph	A diagram showing the relationship of quantities.	Equivalent ratios These ratios are all equivalent:	hours worked. Earnings = £9 × hours worked Hours = 0, earnings = £9 × 0 = £0
Inverse proportion	When two quantities are in inverse proportion, as one increases the other decreases.	1 : 4 = 2 : 8 = 10 : 40 Both sides of the ratio can be multiplied or divided by the same number to give an equivalent ratio.	Hours = 1, earnings = $\pm 9 \times 1 = \pm 9$ Hours = 2, earnings = $\pm 9 \times 2 = \pm 18$
Direct proportion	Two quantities are in direct proportion when they increase or decrease in the same ratio.	Reducing ratios to simplest form To reduce ratios to their simplest form you keep finding smaller equivalent ratios until you can no longer divide both numbers by a	proportion will always produce a straight-line graph that passes through the origin.
Multiplicative relationship	A relationship where two quantities can be expressed as multiples of each other.	number. Simplify 6 : 12 Divide both numbers by 2 $6 \div 2 = 3$ and $12 \div 2 = 6$	Inverse proportion When the number of workers doing a job increases the time the job takes decreases. When the number of workers
Ratio	A ratio shows how much of one thing there is compared to another. Ratios are usually written in the form a:b.	Therefore, $6: 12 = 3: 6$ Divide both numbers by 3 $3 \div 3 = 1$ and $6 \div 3 = 2$ So, $3: 6 = 1: 2$	decreases the time the job takes Increases. When we graph this relationship we get a curved graph.
Tier 2 vocabulary	Definition	So 6 : 12 in its simplest form is 1 : 2	we get a cuiveu graph.
Fraction	Represent equal parts of a whole or a collection	Sharing ratios Dave and Lisa win £500 between them, they agree to divide the	Section 3: Questions
Best buy	An item or product which gives the best value for money out of all its competitors.	money in the ratio 2 : 3 The ratio 2 : 3 tells us for every £2 Dave receives, Lisa receives £3. So, of the total amount, Dave will receive 2 parts and Lisa will receive 3 parts meaning that there are 5 parts in total.	1. Write the ratio 40 : 28 in its simplest form
Debit	An amount of money taken out of an account: the opposite of credit.	If £500 represents 5 parts, £100 represents 1 part. Dave receives 2 parts: 2×£100=£200 Lisa receives 3 parts: 3×£100=£300	 Write the ratio 5 : 10 : 15 in simplest form A necklace is made using gold and silver beads in the
Credit	The name given by accountants to an amount received: the opposite of debit.	So the money is split in the ratio £300:£200 <u>Expressing ratios as fractions</u> In the above example there are five parts in total.	ratio 3 : 2. If there are 80 beads in the necklace: a) How many are gold? b) How many are silver?
Balance	An account balance is the amount of money present	To work out the fraction of money Dave got you put his part of the ratio above the total parts which is 2/5 .	4. Twelve pencils cost 72p. Find the cost of 30 pencils.
Profit	Income minus all expenses	To work out what fraction of the money Lisa got you put her part of the ratio over the total parts which is 3/5. So Dave got 2 fifths of the money and Lisa got 3 fifths.	Jenny buys 15 felt-tip pens. It costs her £2.85. How much would 20 pens have cost?
Loss	Loss occurs when you sell something for less than it cost.	Writing ratios as linear functions If you want to write the ratio 2:3 (how Dave and Lisa split their	6. Mr A and Mr B share some money in the ratio 4:1a) Write an equivalent ratio to thisb) How many parts are there all together?
Percentage	Percent means 'per 100' and it's shown using the symbol %.	money) as a linear function where x is the amount Dave has and Y is the amount Lisa has as two equal things you would write 3x = 2y.	 c) What fraction does Mr A get? d) If x is how much Mr A gets and y is the amount Mr B gets, write the ratio as a linear function
Equivalent	Two values, numbers or quantities which are the same.	Because if you times Dave's money by 3 you get £600 and if you times Lisa's money by 2 you also get £600 so these are equal.	e) If they were to share £1000 how much would they get each?

Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Axis	x (across) and y (up) axis. Labelled with numbers to plot coordinates.	
Quadrant	The four parts of a set of axis. Starting with one in the top right and moving around anticlockwise.	
Origin	The centre of a set of axis. (0,0)	
Equation	Two things are equal and can be solved to find an unknown.	
Linear equation	An equation that can be draw as a straight line.	
Explicit	A function in which the dependent variable can be written in terms of the independent variable.	
Quadratic	One or more terms in which the variable is raised to the power of two.	
Gradient	Change in the value of a quantity with change in a given variable.	

Tier 2 vocabulary	Definition
Coordinate	Two numbers written in brackets to describe a position on a set of axis. Can also be three numbers for 3D.
Plot	To draw a mark on a set of axis to show the location of a set of coordinates.
Substitute	To replace a letter with a number.
Graph	A set of axis with a line drawn showing an equation.
Table	A grid filled in to work out a set of answers.
Term	A single number or variable
Solve	Numerical value that satisfies the equation.
Simultaneous	Equations which are solved at the same time.

Maths: y = mx + c





Find their point of intersection for x and y



Tier 3 vocabulary	Definition	Section 2: Conversions	and Sixth Form Centre
Force	involves an interaction between two or	Length	Section 2: Useful formulae
	more objects, and it causes a push or pull between the objects	÷ 100 ÷ 1000	speed = $\frac{\text{distance}}{\text{times}}$ density = $\frac{\text{mass}}{\text{mass}}$ pressure = $\frac{\text{force}}{\text{mass}}$
Volume	The amount of space a 3D shape takes up, measured in units cubed	cm m km	time density – volume pressure area
Density	a measurement of the amount of a substance contained in a certain volume	x 100 x 1000	Section 3: Distance time graphs Key facts • Shows distance on the vertical axis and time on the horizontal axis
Capacity	how much fluid fits inside a container	÷ 1000 ÷ 1000	 The gradient of the line tells us the speed A horizontal line on a distance-time graph shows that the object is stationary (not moving
Rate	How one measure changes in relation to another measure	mg g kg	 A sloping line on a distance-time graph shows that the object is moving.
Pressure	the force per unit area	x 1000 x 1000	Example In the first 4 seconds, 30m was covered so Speed = 30 ÷ 4 = 15 m/s
		Capacity	Speed = $30 \div 4 = 15 \text{ m/s}$
Tier 2 vocabulary	Definition	÷ 10 ÷ 100	Questions How long was the item stationary?
Length	The measurement of how long something is	mi ci L	What was its speed for the last 2 seconds?
Millimetres (mm)	A metric unit, one 10th of a cm	くパノ	0 € 1 2 3 4 5 6 7 8 9 10 June_(8)
Centimetres (cm)	A unit of length in the metric system, equal to one thousandth of a metre	x 10 x 100 Time	Section 3: Speed time graph Key facts
Metre (m)	A unit of length in the metric system, equal to 100 cm	÷ 60 ÷ 60	 The gradient of the graph represents the rate of change. A positive gradient shows acceleration. A negative gradient shows deceleration. A straight line on the graph means that the rate of change is constant
Kilometres (km)	A unit of length in the metric system, equal to 1000m	seconds minutes hours	 The area under a speed-time graph represents the distance travelled Rate of change = <u>final speed – initial speed</u>
Gram (g)	A metric unit of mass equal to one thousandth of a kilogram	x 60 x 60	Calculating the rate of change
Kilogram (kg)	A metric measure of mass equal to 1000 grams	$\begin{array}{c} \underline{\text{Area}} & \underline{\text{(olume)}} \\ \div 100^2 & \div 100^3 \end{array}$	Between 0 and 10 seconds Final speed = 16 Initial speed = 0 $\underbrace{16 - 0}_{16 - 0} = 1.6 \text{ m/s}^2$
Millilitres (ml)	One thousandth of a litre	cm ² m ² cm ³ m ³	10 Between 10 and 20 seconds
Centilitre (cl)	A metric unit of capacity, equal to one hundredth of a litre	x 100 ² x 100 ³	Final speed = 16 Initial speed = 16 $\frac{16-16}{10} = 0$
Litres (L) Speed	A metric unit of capacity, equal to 1000 ml A measure of how fast something is travelling	X 100-	Between 20 and 25 second102025 $0 - 16 = -3.2 \text{ m/s}^2$ Time (s)The negative answer shows deceleration10
1			· IC

10

pair of

compasses)

Construct

Maths: Constructions



Section 1: Key Vocabulary			
Tier 3 vocabulary	Definition		
Perpendicular	At a 90 ⁰ angle		
Parallel	Lines that remain the same distance apart		
Bisect	Cut in two equal pieces		
Arc	Part of the outline of a circle		
Locus	A path or shape formed by a number of points satisfying certain rules		
Loci	The plural of 'locus'		
Angle bisector	A line that cuts an angle exactly in half		
Perpendicular bisector	A perpendicular line that cuts a line exactly in half		
Tier 2 vocabulary	Definition		
Equidistant	Equal distance		
Compass (sometimes referred to as a	A mathematical instrument that keeps the pencil point and the point of the compass at a constant distance from each other		

To make a mathematical drawing

usually involving the use of a combination of pencil, ruler, compass and protractor





Biology Topic 5 – Health and Disease



Section 1: Key Vocabu	lary	Se
Tier 3 vocabulary	Definition	<u>C</u>
Communicable Disease	Disease caused by pathogens which can be passed from person to person	
Non-communicable Disease	Disease which cannot be passed from person to person. Is caused by a problem in the body.	
Cardiovascular Disease	Disease affecting the heart and circulatory system, can high blood pressure, heart attack and strokes	
Pathogen	A microorganism that can cause disease eg virus, bacteria and protist	
Vector	An organism that carries disease from one person to another	
Lysozyme	An enzyme which breaks down bacteria, part of the bodies chemical defense.	
Antigens	Protein markers on the surface of any cell	
Antibodies	Proteins released from lymphocytes which destroy or inactivate a pathogen	<u>N</u> Ca
Tier 2 vocabulary	Definition	G
Health	A state of complete physical , social and mental well-being	<u>M</u> Ir
Disease	An illness that prevents the body from working properly	Li <u>A</u> Si
Vaccine	Contains a weakened or inactive pathogen or bits of the antigen.	<u>0</u>
Immunisation	Artificial immunity triggered by a vaccine	

Section 2: Types of Disease				
Communicable Diseases				
Disease	Pathogen	Symptoms		
Cholera	Bacteria			
AIDS		Destroys White Blood cells		
Malaria	Protist			
Chalara Dieback		Lesions on branches, dead leaves at top		
Tuberculosis (TB)	Bacteria			
Stomach Ulcers		Stomach pain, weight loss, sickness		
Ebola	Virus			
Non-Communicable Diseases Caused by many different factors; <u>Genetic Disorder</u> - Eg Sickle Cell Anaemia, Cystic Fibrosis <u>Malnutrition</u> - Eg Scurvy (lack of vit C) or Anaemia (lack of Iron) <u>Lifestyle;</u> <u>Alcohol</u> - causes Liver Cirrhosis <u>Smoking</u> - causes cardiovascular disease <u>Obesity</u> - causes cardiovascular disease				

Body Mass Index

Height²

BMI = <u>Mass</u>



A vaccine contains a weakened or inactive pathogen or bits of an antigen which will create a safe immune response.

Draw a flow diagram, using the information in the graph above, to explain what happens in the body when you are vaccinated against a pathogen and then at a later date you catch the real pathogen.



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Ionic bond	Electrostatic forces between opposite charged ions.	
Electrostatic forces	Forces attracting ions which have opposite charges.	
Cation	Positive charged ions – formed when metals lose electrons.	
Anion	Negative charged ions – formed when non-metals gain electrons.	
Ionic compounds	Formed from positive and negative ions held together by ionic bonds.	
Dot and cross diagram	A diagram which uses symbols (dots and crosses) to show the arrangement of electrons.	
Ionic lattice	The alternating arrangement of positive and negative ions in an ionic solid.	
Tier 2 vocabulary	Definition	
Bonds	Forces of attraction that hold atoms together.	
lons	Charged particles formed when atoms gain or lose electrons.	
Property	The way a substance behaves e.g. it conducts electricity.	
Aqueous	A substance dissolved in water.	
Molten	When a substance has been melted	

Section 2: Ionic bonding
lonic compounds always <u>contain a metal and a non-</u> <u>metal.</u>
Forming ions

Forming ions

When metals react they **lose** electrons forming **positive** ions called **cations**.

When non-metals react they **gain** electrons forming **negative** ions called **anions**.



Metal ions are positive because they have lost electrons and contain more positive protons then negative electrons.

Non-metal ions are negative because they have gained electrons and contain more negative electrons than positive protons

Section 3: Ionic compounds			
Common ions			
Positive ion	Ion formula	Negative ion	Ion formula
sodium	Na⁺	fluoride	F-
lithium	Li⁺	chloride	Cl⁻
potassium	K+	bromide	Br⁻
magnesium	Mg ²⁺	oxide	O ²⁻
calcium	Ca ²⁺	sulfide	S ²⁻
aluminium	Al ³⁺	phosphide	P ³⁻

Ionic Lattice



Properties of ionic compounds

High melting points

- Lots of bonds to break
- Ionic bonds are strong
- Takes a lot of energy to break the bonds

Electrical Conductivity Solids

- Do NOT conduct electricity
- Because ions cannot move

Molten or dissolved

- Do conduct electricity
- Because ions can move

Chemistry – Covalent Bonding



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Molecular	Substance containing groups of non-metal atoms held together by covalent bonds.	
Covalent bond	Shared pair(s) of electrons.	
Single bond	One shred pair of electrons.	
Double bond	Two shared pairs of electrons.	
Molecular formula	A formula listing the atoms in the molecule e.g. CH_4	
Structural formula	A formula which uses lines to represent the bonds and show how they are attached.	
Valency	The number of electrons in the outer shell	
Simple covalent	Substances made from a small number of atoms joined together (less than 100 atoms)	
		1



Section 2: Simple Covalent Substances **Melting point** Low melting points only weak intermolecular forces are broken when they me this only takes a small amount of energy **Electrical Conductivity** CI н • Do NOT conduct electricity • There are **no electrons** which can **move** Shared pair of electrons single covalent bond Hydrogen chloride, HCI н double covalent bond double covalent bond a hydrogen Ο С Ο 0 Ο d carbon dioxide c oxygen H--C-CH₄ molecular formula structural formula Different ways of representing molecules (stick bonds) Diagram Advantages Disadvantages type Molecular Shows which No information about the bonds or shape of formula atoms it contains molecule. Structural Shows how atoms No information about the shape or size. full dot and dot and cross (outer shell only) cross diagram formula are bonded Dot and Shows the Does not show the shape or size. arrangement of cross the electrons diagram Space filling Shows the size Does not show the electrons. 3D space filling ball and stick diagram and shape

Physics - Stored energies



Section 1: Key Vocabulary			
Tier 3 vocabulary	Definition		
Gravitational field strength	The amount gravity pulls on an objects mass N/kg (on earth this is 10N/kg)		
Gravitational potential energy	The energy an object gains as it moves away from a source of gravity		
Kinetic energy	The energy stored in a moving object		
Energy Stores	Where energy in stationary in one place and in one form		
Energy transfers	Where energy can be transferred from one form or location to another		
Energy transfer diagram	Shows the stores and transfers of energy going on in a particular situation		
Sankey diagram	Graphical representation of the percentage of useful and waste energy in a transfer		
Efficiency	A measure of the amount of useful energy transferred in a situation or device		





The efficiency of a device can be calculated using this equation: $efficiency = \frac{(useful energy transferred by the device)}{(total energy supplied to the device)}$

Section 2: New Knowledge/Skills					
Energy Stores and Pathways The Eight Stores					
Store	Description				
Chemical In batteries, fuels and food					
Kinetic	In moving objects				
Gravitational	In objects lifted above the Earth's surface				
Thermal	In all objects, it increase with temperature				
Magnetic	Objects within a magnetic field				
Electrostatic	Around positively and negatively charged objects				
Nuclear Stored in the nucleus of an atom					
Elastic	In objects that are stretched or squashed				

The Four Pathways

Pathway	Description		
Mechanically	By forces such as friction		
Electrically	When there is a current flow		
By heating	Due to a temperature difference (conduction, convection)		
Radiation	e.g. waves such as light and sound		

In any example of something bouncing, falling, rising in the air, swinging etc. There is an interchange between kinetic and gravitational energy.

The gravitational energy top of drop

Transferred mechanically by forces

Into kinetic energy

If there is no drag the kinetic energy at the bottom will be equal to the gravitational energy at the top



2. Why is the actually kinetic energy likely to be less than this

Physics - Conservation of energy



Section 1: Key Vo	ocabulary	Section
Tier 3 vocabulary	Definition	Condu Heat t
Thermal conductivity	A measure of how good a material is at allowing heat to transfer through it	the en • Bes • Wo
Convection	Hot fluids rise as they have more energy and become less dense (lighter)	Vac like
Convection Current	A flow of hot and cold fluids, rising and sinking in a cycle in a given space	Hot flu theref
Infra-red Radiation	Electromagnetic waves given off from hot objects, absorbed and emitted by darker objects	This cr
Renewable	Energy resources that will be available again after being used	Radiat Electro
Non-renewable	Energy resources that will run out and will not be there again	object • Bes Bla
Climate change	The changes in the weather, global temperature and rainfall across the Earth	• Wa Shi
Carbon Neutral	A resource that removes as much CO_2 from the atmosphere as it produces	Draw a warm
Weather dependent	An energy resource that is not always available depending on the weather	
Tier 2 vocabulary	Definition	
Conduction	Where heat energy is transferred through the collisions of vibrating particles	
Thermal Insulator	A material that does not allow heat energy to transfer through easily	

	Section 2: New Knowledge/Skills		S
	 Conduction Heat transferred by vibrating particles transferring the energy from one to another during collisions. Best thermal conductors: metals Worst thermal conductors (insulators): Vacuum, gasses, objects with pockets of gas like foam 		E
	Convection Hot fluid, expands, becomes less dense and therefore lighter and rises. Cold fluids contract, become more dense and sink This creates a convection current		
	 Radiation (infra-red) Electromagnetic wave like light, emitted from hot objects Best emitters and absorbers of radiation: Matte Black Worst emitters and absorbers of radiation: Shiny silver/white 		
	Draw and describe how you can keep hot drinks warm in a thermos flask.		
			C r

D.	Section 3: Energy Resources						
Energy Resources							
Nuclear	Biofuels	Hydroelectric	Wind	Solar (photovoltaic cells)	Fossil Fuels (Coal, Oil and Gas)	Energy Resource	
Using the energy from nuclear reactions to heat water	Burring plant and animal waste to create heat same as fossil fuels	Using gravitational energy of water held behind a damn to turn turbine	Using wind turbines to turn a generator	Using the suns energy to convert straight into electricity	Remains of dead plants and animals, burned to get steam to turn turbine	Description	
Efficient, not weather dependent, no pollution	Carbon neutral, not weather dependent, easy to switch	Not weather dependent, no fuel cost, no pollution	No pollution, no fuel cost	No pollution, no fuel cost, can be installed on rooves	Efficient, not weather dependent, no new builds	Advantages	
Will eventually run out, danger from nuclear waste	Needs lots of land for crops	Floods a huge area, expensive to build	Weather dependent, expensive to install	Weather dependent, expensive to install	Will run out, produces CO ₂ which adds to global warming	Disadvantages	

Over the last few decades, we have introduced more and more renewable resources, our use of coal and oil has reduced, but our use of natural gas has increased.

Geography: Africa



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Tier 3 vocabulary	Definition	Section 2: New Knowledge
Biome	Large scale ecosystems eg. tropical rainforests, deserts.	The causes of desertification Vegetation roots The countries of Africa
Climate	Long term atmospheric conditions in an area. The expected weather.	Vegetation dies.
ontinent	One of the Earth's seven divisions of land. See the map opposite.	Soli is left No leaves to exposed. intercept rain. Soil Wind blows away is washed away. Western Algoria Vithus Vit
esertification	The process of land turning into a desert, as the quality of soil becomes worse over time.	The soil is degraded, losing fertility and
evelopment	How the wealth and quality of life of people varies from place to place and changes over time.	structure. <u>Measures of development</u> • Gross National Income (GNI) <u>Senegal</u> <u>Gambia</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u> <u>Burkina</u>
versity	A wide range of things eg. people's lifestyles and cultures, plants and animals.	Life expectancy Education Human Development Index Liberya Liberya Coast Ghana South
osystem	The living and non-living parts of an environment and how they are connected.	Number of doctors per 1000 people Gabon Gabon Gabon Gabon
r trade	A system that makes sure farmers and other workers receive a better price for the product they are producing.	The continents
Iultinational company	A business operating in more than one country.	Angola Angola Malawi
esource	A material that is of use to humans.	Paofe Ocean South America South America
ourism	The business connected with people's travel for pleasure.	Corran Corrana Swaziland

Section 3: Geographical Skills

1.

2.

3.

Antarctica

Give the general trend / pattern eg. up or down.

When <u>describing a graph</u>, your writing should include the following things:

Add figures from the graph eg. the highest value is..., the lowest number is..., the range of values is....

Mention other obvious features eg. anomalies (data that does not fit the general pattern).

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.		

History: 9/11 and Europe



Section 1: Key Vo	ocabulary	Section 2: New Knowledge				
Tier 3 vocabulary	Definition	The 9/11 attacks 1908- A British company discovers oil in the Middle East and begin to interfere there.				
Referendum	A direct vote by the electorate on a proposal or a law.	 1917- Britain promises that Palestine can be a homeland for the Jewish people. 1930s –Jewish immigrants poured into British controlled Palestine, this causes tensions between Arabs and Jews. 				
EEC	European Economic Community, the name of the EU between 1957 and 1993.	 1947- Palestine is divided into two countries, Israel and Palestine, but Arab countries are not happy about this and USA supports Israel. 1960's Extremism in Egypt and Saudi Arabia. 1979- The Soviets invade Afghanistan. 1988- al-Qaeda is formed 1990- Iraq invades Kuwait. 1992- al-Qaeda flees to Sudan. 1996- al-Qaeda expelled from Sudan and moves to Afghanistan. 1988- al-Qaeda attack the US embassies in Kenya and Tanzania. 				
EU	The EEC was renamed the EU in 1993 to reflect the closer political ties of the 27 member countries.					
Terrorism	The use of violence to achieve political aims	11th September 2001 - al-Qaeda attack the Twin towers in the USA				
Jihad	Islamic holy war against unbelievers	How can learning about Europe's recent past help us to understand Europe today? 1957 The European Economic Community was set up betweer				
Treaty	An agreement between different nations.	 six Western European countries. 1961 The French government refused to agree to Britain joining the EEC. 1973 The British Conservative government applied again and were successful in joining the EEC. 				
Tier 2 vocabulary	Definition	 1975 The British Labour government had a referendum on membership. The British people voted to stay in the EEC. 1980s Some Conservatives, who had thought the EEC would b about free movement of money and more trade, began to 				
Extremism Islam	Aggressive religious or political views.	dislike the controls on people's rights that came from Europe. 1992 Many Conservatives did not like the Treaty of Maastricht which created the EU and started to put the economies of EU				
	Religion based on the teachings of Muhammad.	 countries closer together. 2000s The EU expanded and the British Labour government supported this. The Euro was created. 2015 The Conservative Prime Minister promised a referendum on membership of the EU. 				
Muslim	A person who believes in Islam	2016 The British people voted by 52% to 48% to leave the EU.				

Section 3: Enquiry Questions

Would the 9/11 attacks have happened without Osama Bin Laden

How can learning about Europe's recent past help us understand Europe today?

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?



Guardian cartoon May 2015

Section 5: Interpretations

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

For example:

Historian Lawrence Wright has argued that the 9/11 attacks would not have happened without Osama bin Laden.

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



Section 1: Key Vocal	bulary	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	Do we need to prove God's existenc	
Proof	Any evidence that establishes or helps to establish the truth of something.	and viewpoints in our views of the world. Consider questions such as: what do we mean by evidence, proof	In answering the question - you should cons	
Interpretation	The meaning assigned to another's creati ve work, action, behaviour, etc.	or likeliness in relation to religious questions? Apply words like 'evidence', 'proof' 'interpretation' and 'argument' accurately in discussions about God.	 What are the differences between facts, beliefs and opinions? 	
Argument	A course of reasoning aimed at demonstr ating truth or falsehood	The Kalam Argument	• Why do Muslims believe in God? Do they believe God can be proven to exist?	
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	Why did the Buddha think belief in God v unimportant? Duddhit thinking what can save us for	
Allah	The Arabic word for God in Abrahamic religions.	had a divine cause (the Kalam Cosmological argument). Find out more about Muslim beliefs in God / Allah.	 In Buddhist thinking, what can save us from pain and suffering? 	
Premise	Statement from which another is inferred or follows.	Consider questions about the Muslim experience of prayer, nature and theology which lead Muslims to be sure God / Allah is real. Think of reasons why some	Skills checklist –	
Conclusion	The proposition established from one or more premises.	people think it is rational and logical to believe in God. Buddhist views on God	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	Knowledge – facts and religious or non-religible beliefs,	
Suffering	Pain or distress caused by injury, illness or loss. Suffering can be physical,	about God. Find out more about the Buddhist view of life. Consider questions such as: what matters most to Buddhists? Why did the Buddha refuse to answer 'God- questions'? Think of reasons why some people don't care	Impact of belief – how it affects what peopl think and do,	
	emotional/psychological or spiritual.	about 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 the ideas/beliefs from – quotations,	
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	Judgement – how strong, valid or sound the argument is,	
Natural Suffering	Pain or distress caused by natural events such as earthquakes, flood, disease, etc.	how to reduce suffering. Think of reasons why Buddhists seek to live without relying on God, but relying on their own effort, mindfulness and practice.	Opinion – at least 2 different points of view	
Moral suffering	Pain or distress caused by the actions of humans such as killing, theft, etc.			

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World Views: Is Death the End?



Section 1: Key Vocabulary - throughout your homeworks/classwork - find the definition of the following words. Tier 3 vocabulary Definition Life Purpose Death Humanist Hedonist Creed **Euthanasia** Abortion Sanctity of Life Hell **Saviour Siblings** Funerals Heaven **Sources of Authority** John 5:24-25 John 5:28-29 John 14:1-7 Corinthians 15:51-576 Revelations 21:1-4 Nicene Creed

	Section 2: New Knowledge/Skills	Sectio
	 Key Questions: What do people believe about life? What do people believe about the afterlife? 	Assess
	 What is the sanctity of life? What is abortion? What is euthanasia? Has medicine gone too far? Why do we have funerals? What do Buddhists believe about life and death? Does Death matter to Humanists? Is this life hell? 	In ans A lif Co th di O
	Abortion	or • Si
	UK Law - legal upto 24 weeks (in some circumstances) with the agreement of two doctors.	ar • Si Cł lif
	Christianity - some argue we should be compassionate and permit abortion if the mothers life is in danger. Other Christians say it is a moral evil becaue every life is a gift from God.	Skills As yo incluc
	Euthanasia	belief
	UK Law - Illegal and considered either murder or manslaughter and carries a life in prison penalty. Hospices and palliative care offer pain relief and	Impa and d
	comfort as end of life care.	Speci
	Christians generally against Euthansia - "Do not commit murder" but some argue "the most loving action"	Sourc ideas Judge argur
1		

Section 3: Other subject specific things

Assessment Essay Question:

Is Death the End?

In answering the question - you should consider:

- A range of beliefs regarding the possibility of life after death.
- Consider where these beliefs come from?
- the importance of this life compared to the hope of an afterlife. (Remembering to consider different views).
- The impact of differing views of life after death on how individuals view earthly life.
- Similarities and differences between Humanists and Christian funeral services.
- Similarities and differences between Buddhist, Christian and Humanists on the purposes of life.

Skills checklist –

As you write your essay check that you have included...

Knowledge – facts and religious or non-religious beliefs,

Impact of belief – how it affects what people think and do,

Specialist terms,

Sources of authority – where people get their ideas/beliefs from – quotations, Judgement – how strong, valid or sound the argument is,

Opinion – at least 2 different points of view 20

French: Le Meilleur des Mondes



Section 1: K	cy voca	Sulary/C	zuesti	2115	Section 2:	c. annul			
Tier 2 vocabulary Definition			Negative ex						
the superlativ	/e			when something is the least, most etc.	These negative expressions all form a sandwich around the verb in French:				
Negation				bsence or opposite of	nepas	nepas		not	
				ething actual or positive.	nejama	iis	ne	ever	
The conditior	nal tense		that	to talk about things would happen or that d be true under certain	neplus			o longer, not any more	
			cond	itions	nerien		nc	othing, not anything	
Possessive ac	ljectives		indic	in front of nouns to ate to whom or to what e nouns belong.		e plus de bœuf s. iamais and plus. u	ın/ur	l no longer eat bee ne and du/de la/des	
Questions			Trans	lation	change to d Je mange d	e/d':		l eat pork.	
1.Qu'est-ce q	u'on man	nge/tu	Wha	t do we eat/you eat?		e jamais de porc		l never eat pork	
manges?					The superla				
 Est-ce que la viande ? 	Est-ce que tu manges de viande ?		Do you eat meat ?		The superlative is used to say 'the most' or the lead English, we use 'the most' or add '-est' to the ad French:				
3 . Est-ce que tu es pour ou contre le végétarisme ?			ou for or against tarianism?		adj. before noun		adj. after noun		
	4. Qu'est-ce qu'il faut faire bour protéger les animaux ?		Wha anim	t must we do to protect a ls ?	Masc. nouns	l e plus grand village		le village le plus important	
5. Qu'est-ce q aider l'enviro	•	•		t do you do to help nvironment	Fem. nouns	m. la plus grand <u>e</u> ville la ville la p uns important		la ville la plus important <u>e</u>	
6. Qu'est-ce q récemment p l'environnem	our aider		recei	t have you done htly to help the onment?	J'aimerais changer le monde. I would like to change the world.				
7 . Qu'est-ce q faire pour cha monde ?	•	udrais		t would you like to do to ge the world?					
8. Pourquoi serait –ilWhy would it beimportant d'aider ?to help?		would it be important lp?		ne future stem (usua e nse endings :	ally th	e infinitive) and the			
Possessive adj					Je jouer a	is		would play	
my	m mon	f ma	pl mes	before a vowel mon	Tu jouera			ou would play	
your	ton	ta	tes	ton	Il/elle/on		· ·	e/she/we would play	
ner/his/one's	son	sa	ses	son	Nous jou	-		e would play	
our notre notre		nos		Vous jou			ou would play		
/our	votre	votre	vos			ouer aient	1 '	ney would play	
their	leur	leur	leurs		, = ===,	-		, , ,	

Section 3: WAGOLL

J'habite à Lyon en France avec ma famille. Au collège en France, les élèves mangent la nourriture saine et équilibrée par exemple on mange souvent de la viande, du riz, de la salade et du yaourt. On boit de l'eau. Je pense que c'est plus sain que le fast-food. Je mange de la viande mais mon ami ne mange plus de viande. Je trouve que le porc est savoureux cependant l'empreinte carbone des légumes est moins grande que l'empreinte carbone de la viande. Je suis pour le végétarisme et je voudrais commencer à manger moins de viande pour protéger l'environnement.

Pour protéger les animaux et la nature, il faut ramasser les déchets, manger moins de viande, utiliser moins de plastique et consommer moins d'énergie. À mon avis, il ne faut jamais acheter des souvenirs d'origine animale.

Quand j'étais plus jeune, j'utilisais les sacs en plastique tous les jours. Maintenant je recycle le plastique et j'utilise les sacs réutilisables. L'année dernière, on a organisé une campagne anti-plastique au collège. On a changé des idées et on n'utilise jamais de bouteilles en plastique.

À l'avenir, je voudrais utiliser moins d'eau à la maison. J'aimerais aussi réparer plus de choses et consommer moins. À mon avis, le plus grand problème pour les ados,

c'est l'environnement.

À savoir:

How to agree/disagree Je suis pour/contre... À mon avis... Je pense que... Je trouve que... Tu es d'accord? Je suis d'accord. Je ne suis pas d'accord. tort! Tu as raison! Tu rigoles! cependant par contre

I am for/against... In my opinion I think that I find/think that Do you agree? I agree I don't agree. Tu as You're wrong! You're right! You must be joking! however

d'un côté...de l'autre côté.. on one hand...on the other hand

% Research the following French charities. What do they do?



on the other hand

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FRENCH Y9 Word list Summer 1.A		FRENCH Y9 Word list Summer 1.D			
		it's necessary/you	nm	le végétarisme	vegetarianism
vb	il faut +infinitive	must	nm	le véganisme	veganism
Ι.		it's not necessary/you	vb	Je suis pour	I am for
vb	il ne faut pas +infinitive	mustn't	vb	Je suis contre	I am against
vb	il ne faut jamais+ infinitive	it is never necessary/you mustn't ever	vb	Tu as raison	You are right
inf	ramasser les déchets	to pick up rubbish	vb	Tu as tort	You are wrong
			vb	Je suis d'accord	l agree
inf · · ·	recycler	to recycle/ recycling	adv	par contre	however
inf	consommer	to consume/consuming		d'un côté	on one hand
	moins de viande	less meat		d'un autre côté	on the other hand
	moins de plastique	less plastic	FRENCH	Y9 Word list Summer 1.E	
	moins d'énergie	less energy		le plus grand	the biggest/tallest (masc.)
	à pied/à vélo	by foot/ by bike			the biggest/tallest
	CH Y9 Word list Summer 1.B			la plus grande	(fem.)
adv	extrêmement	extremely	adj	grave	serious
vb	Je trouve que c'est	I find that it's	adj	sain(e)	healthy
	trop d'eau	too much water	adj	lent(e)	slow
	trop d'énergie	too much energy		bon(ne) pour la santé	good for your health
inf	refuser le plastique	refuse/reject	adj	pratique	practical
	plus de produits bio	more organic products	adj	recyclé(e)	recycled
	moins de viande	less	inf	éliminer	eliminate
nf	une bouteille réutilisable	a reusable bottle	inf	(pour) réduire	(in order) to reduce
nm	un sac recyclable	a recyclable bag	FRENCH	Y9 Word list Summer 1.F	
nm	le verre	(the) glass	inf	devenir	to become/becoming
FRENC	CH Y9 Word list Summer 1.C		vb	(il est) devenu	(it) became
pos a	dj votre/vos	Your (singular/plural)	vb	j'aimerais + infinitive	I would like to + infinitive
pos a	dj notre/nos	our (singular/plural)	vb	Je voudrais + infinitive	I would like to+ infinitive
pos a	dj leur/leurs	their (singular/plural)	inf	manifester pour	to protest for
inf	protéger l'environnement	to protect the environment		bon pour la santé	good for your health
	ne plus	no longer		le plastique à usage	
1	ne rien	nothing/not anything	nm	unique	single-use plastic
	des produits laitiers	dairy products	inf	réparer plus de choses	ropair more things
	des produits d'origine animal	products of animal origin			repair more things
	en cuir	(made of) leather	inf	réutiliser	to re-use
adj	végétarien(ne)	vegetarian	inf	important	important

REVISION: Scan the QR code below to access the word lists on Quizlet!

This QR code links to all the French Y9 Quizlet sets.



Phonics: i	
éliminer	viande
bio	pratique

Phonics: -ui	
suis	cuir
réduire	oui

Phonics: a	
réutilisable	grave
ramasser	pratique

Phonics: - tion	
pollution	éducation

Phonics: -ain	
train	sain
main	maintenant

German: die Umwelt



			and Sixth Form Centre
Section 1: Key Voca	<i>n</i> · ·	Section 2: Grammar	Section 3: WAGOLL
Tier 2 vocabulary	Definition	Comparative and Superlative adjectives	Ich wohne in Belper, in England. Ich interessiere mich sehr für den Umweltschutz,
Comparative adjective	used to compare things and say something is bigger, better etc.	The comparative	weil die Welt viele Umweltprobleme hat. Die Luftverschmutzung und die
Superlative adjective Adjective	than something else used to compare things and say something is the biggest, best etc. changing the form of adjectives so	 just add –er to an adjective klein -> kleiner (small -> smaller) interessant -> interessanter (interesting -> more interesting) 	Wasserverschmutzung sind große Probleme, aber das größte Problem ist wahrscheinlich die globale Erwärmung. Meiner Meinung nach ist die globale Erwärmung wichtiger als die Abholzung. Um dieses Problem zu lösen,
declension	that it agrees in gender and number with the noun that it is describing	Some shorter adjectives also add an umlaut to the vowel	müssen wir alle helfen. Man sollte Energie sparen und Länder müssen erneuerbare
Masculine, feminine, neuter	the terms used to refer to the gender of German nouns	alt -> älter kalt -> kälter groß -> größer	Energie benutzen. Ich glaube, dass meine Schule umweltfeindlich ist. Neulich habe ich ein Projekt in der Schule gemacht, so dass wir Müll
Question	Translation		trennen und mehr recyceln. Zu Hause hat meine Familie auch Müll getrennt und weniger
1. Was ist das größ Umweltproblem?	te What is the biggest environmental problem?	 The superlative use <i>am</i> before the adjective and add <i>-sten</i> to the end of the adjective 	Strom benutzt. Ich interessiere mich sehr für freiwillige Arbeit. Samstags arbeite ich für eine Hilfsorganisation,
2. Was sollte man machen, um dieses Problem zu lösen?	What should we do in order to solve this problem?	 add <i>—esten</i> if the adjective ends in a vowel or a t klein -> kleiner -> am kleinsten 	die Flüchtlingen hilft. Wir trinken Tee und ich lehre ein bisschen Englisch. In der Zukunft will ich im Ausland arbeiten, um mit Armut und
3. Wie kann man di Umwelt schützen?	e How can we protect the environment?	alt -> älter -> am ältesten	Obdachlosigkeit in anderen Ländern zu helfen.
4. Was hast du neu gemacht, um die Umwelt zu schützer	recently to protect the	 If you use a superlative adjective before a noun, add -st to the adjective and then the correct ending (masc./fem./nt.) add -est if the adjective ends in a vowel or a t 	
6. Interessierst du c für freiwillige Arbei		das große Problem das größere Problem	7 Bit Metsoletive Method: Sector and the Sector and Wetsoletive Method: Sector and Sector and Wetsoletive Method: And Sector and S
7. Welche Arbeit w du machen, um zu helfen?	illst What work do you want to do, in order to help?	das größte Problem	le/ Go to this website and translate the goals from German to English.

r 1 A			
envir	onment		
area			
envir	environmentally friendly		
environmentally unfriendly			
to us	to use		
to us	e		
to recycle to separate rubbish to waste			
		sparen to sa	
		r 1.B	
	electricity		
	use/usage		
	light		
	to switch iff		
	public transport (pl)		
	to close		
	area envir envir unfrid to us to us to red to se		

to close

heating

to bathe

air-conditioning

GERM	AN Y9 Word list Summe	er 1	L.D	
52	die Abholzung		deforestation	
	die Luftverschmutzung		air pollution	
	die			
	Wasserverschmutzung		water pollution	
	verpesten		to poison, pollute	
	die globale Erwärmung	5	global warming	
	das Aussterben		extinction	
	Tierarten		animal species	
	die Lärmbelastung		noise pollution	
	die Energiequelle		energy source	
	verursachen		to cause	
GERM	AN Y9 Word list Summe	er 1	1.E	
	erneubar	re	newable	
	schützen	to	protect	
	vergiften	to	poison	
	zerstören	to	destroy	
	vernichten	to destroy		
	bedrohen	to threaten		
	das Kraftwerk	рс	ower station	
	das Atomkraftwerk	•	clear power station	
	der Biokraftstoff		omass fuel	
	saurer Regen	ac	id rain	
	-0-			

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



Phonics: Z	
Abholzung	Verschmut z ung
benut z en	z erstören
schüt z en	Hei z ung
Z iel	zumachen

Phonics: V	
v erwenden	v erschwenden
Verbrauch	V erkehrsmittel
Verschmutzung	überbe v ölkert
v erpesten	v erursachen

GERMAN Y9 Word list Summer 1.C

die Klimaanlage

schließen

baden

die Heizung

die Armut	poverty
die Arbeitslosigkeit	unemployment
die Obdachlosigkeit	homelessness
der Verkehr	traffic
die Luftverschmutzung	poor
Flüchtlinge	refugees
die Gesellschaft	society
die Gewalt	violence
der Schaden	damage
überbevölkert	over-populated

Computing: 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
Canvas	The area to produce a digital file on.

Tier 2 vocabulary	Definition
Check	To identify any issues and errors with work.
Compose	To produce a document piece of work.
Obtain	To look/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.

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

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**

1991 - Microsoft Publisher desktop publishing package goes on sale.

PE: Tennis

Section 1: Key	Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition	
Volley	Playing the ball before it bounces when you are close to the net.	
Half-volley	Playing the ball low down just after it has bounced.	
Service	Starting the rally with a shot from behind the baseline.	
Service box	The box near the net where the service needs to land.	
Baseline	The line at the back of the court.	
Tramlines	The lines down the side of the court used for singles and doubles.	
Drive	Hitting the ball hard and low across the net.	
Lob	Hitting the ball over your opponent if they are close to the net.	
Drop-shot	Hitting the ball softly over the net when your opponent is at the back of the court.	

Section 2: New Knowledge/Skills

In tennis you will improve your range of shots and start to use some basic tactics to try to outwit your opponent. You will start to use the proper scoring system and play games on a full size court.

On the court below, can you recognise the following lines? baseline - service box - service line - tramlines singles sideline - doubles sideline - centre service line



Scoring in Tennis: Which of these numbers are used?

10 15 20 30 35 40 45 50

PE: Striking and Fielding

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Half- rounder	How many ways can you think of that will lead to half a rounder being scored?
No-ball	When the ball does not arrive at the batter between knee height and the top of the head, on the hitting side of the body.
Run-out	When the field touch the post or the stumps with the ball before the batter arrives.
Obstruction	In rounders, when a fielder gets in the way of the batter.
Forward defensive	The most important shot in cricket to help prevent the ball hitting the stumps.
Drive	The most important attacking shot in cricket - hitting the ball along the floor.
Grip	To throw or bowl the ball in rounders and cricket, use a two fingers grip.
Overarm throw	An important skill for fielders to return the ball to the wicketkeeper/base fielders.
Long barrier	Getting down on one knee to make a barrier to stop the ball

Section 2: New Knowledge/Skills

In striking and fielding activities, you will continue working on rounders, cricket and softball, particularly developing your understanding of the rules and of some of the important techniques.

What are the key points of technique shown in the pictures below?



PE: Track

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Sprint start	A crouched position giving a sprinter the best chance of a fast start.
Staggered start	For events, which go round curves on the track, different start positions are needed.
Lap time	Comparing an athlete's time for each lap they complete.
Split time	An athlete's time at a certain point in a race.
Changeover box	A 20m section marked out on the track inside which the baton must be exchanged.
Down sweep	The quickest way to carry out a baton pass by placing the baton down into the outgoing runner's hand.
Incoming/ outgoing runner	The two runners involved in a relay changeover are the incoming and the out-going runners.
Sprint technique	Paying attention to what each part of the body is doing to maximise speed.
Stride pattern	Taking a set number of strides between each hurdle.

Section 2: New Knowledge/Skills

This year you will continue to experience a range of track events, trying to improve your performance in each.



Can you describe some of the key points for the sprint start and the down-sweep baton hand-over?

PE: Field (Jumping)

Section 1: Key Vocabulary Tier 3 Definition vocabulary Straddle An alternative technique to the scissors technique using the foot nearer to the bar to takeoff. Fosbury flop The most advanced high jump technique involving a backwards dive over the bar. Hang technique A basic long jump technique where the back is arched and the hands are up during flight. Acceleration Speeding up to maximum during the runup is essential in long jump and triple jump. Leg shoot Pushing the legs out in front when landing in long jump to maximise the distance jumped. No-jump The phrase used when the jumper breaks a rule and the jump doesn't count.

Section 2: New Knowledge/Skills

In jumping activities, you will explore techniques to increase your jumping performances. Examples include:



The Fosbury flop technique for high jump.

PE: Field (Throwing)

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Approach	A run-up or footwork routine to get extra power into the throwing action.
Side-step	A simple technique for the shot-put approach.
Glide	A more advanced approach for the shot-put using a backwards hop.
3 step approach	The basic javelin approach needs to be limited to LR,L for a right hander and RL,R for a left hander.
Angle of release	In throwing events, approximately 45 degrees is required to allow the implement to fly furthest.
Speed at release	The thrower must try to produce maximum speed of the arm to release the implement.
Trajectory	The flight path of the implement which will be determined by the angle of release.
No-throw	The phrase used when the thrower breaks the rules, most commonly by overstepping the line.

Section 2: New Knowledge/Skills

We will continue to develop our throwing technique in shot, discus and javelin, including adding an approach.





PE: Running

New knowledge/Skills

You will continue to develop your **endurance** in running this year with further **target setting** to help you towards achieving a **personal best** in your timed runs.

We will look at how we can use **lap times** and **split times** to help break down a performance and help us to achieve a target.

We will consider some of the **mental** aspects of running which can be used to **motivate** ourselves and therefore improve performance, for example, **positive self-talk**.

PE: Health and Fitness

New knowledge/Skills

Through the various activities in Year 8 we will consider the **effects of exercise** on the body and the science behind them, including:

- Redness of the skin
- Changes to our breathing
- Increased heart rate
- Sweating

We will link these effects to the importance of the **warm-up** and we will introduce the idea of having a **cool down** after an intense exercise session.

PE: Leadership

New knowledge/Skills

To develop our leadership abilities in Year 9, you will be challenged to use your PE knowledge at times to lead a warm-up or a skill practice for a group of classmates.

We will discuss and try to develop some of the key **personal qualities** which can help you become a good leader such as: **communication, initiative, responsibility, knowledge, reliability, confidence, body language**.

You may be ask to take on various leadership **roles** such as **coach, captain, referee, scorekeeper.** 27

Art: Animal Selfie



Section 1: Key Vocabulary		
Tier 3 vocabulary	Definition	
Realism	The quality of representing a person or a thing in a way that is accurate and true to life.	
Composition	The way in which different elements of an artwork are combined or arranged.	
Focus	Clear visual definition.	
Naturalistic	Closely imitating real life or nature.	
Coarse	Rough or harsh in texture.	
Intense	Extreme strength	
Stippling	A painting technique using small dots of colour.	
Symmetry	The quality of being made up of exactly similar parts facing each other.	
Tier 2 vocabulary	Definition	
Texture	The feel, appearance or consistency of a surface.	
Highlight	Areas of an image that have been captured by strong lighting or lighter	

areas of colour.

image.

closely.

A gradual build up of applications to

A zoomed in section of an original

How paint is applied to a surface,

often to create a smooth effect ...

Mixing together so the colours/textures combine and

disappear into one another.

The parts you notice when you look

require the desired effect.

Layers

Crop

Strokes

Detail

Blend

Section 2: New Knowledge/Skills Photorealism

A style of Art and Sculpture characterised by the highly detailed depiction of ordinary life with the impersonality of a photograph.

Wildlife Artists

Alan M Hunt Carl Brenders Martin Dowse David Shepherd

Context

Many wildlife artists' main motivations are to conserve the world's wildlife for future generations. Alan M Hunt states it as his mission to impart some of the love, experience and concern for these animals and to protect the environment and the wildlife we share this planet with, through his Art.

'As a wildlife artist and conservationist, I have grave concerns for the environment and believe it needs as much support as I can possibly give, whether financially or as a spokesman. Rather than become a famous painter, I would like to be remembered as someone who tried to make people aware of the need to protect the environment, wildlife and the planet.'

Artist tips to help you paint animal fur

'Start by painting the eye, when the eye looks correct, the animal starts to come alive'.

'It is important to understand the way fur, hair and feathers grow to believably paint them.'

'See which direction the fur is growing, make sure your brushstrokes follow this direction.'

'Painting fur is a lot like layering tiles on a roof, you start layering them from the bottom up.'

'Remember to work from dark to light with fur, the lightest colour is last.'

Section 3: Other subject specific things

http://justforthis.com/video/lastselfie.mp4



WWF

The World Wide Fund for Nature is an international governmental organisation founded in 1961 that works in the field or wilderness preservation and the reduction of human impact on the environment.

#LastSelfie

Launched in April 9th 2014

The idea behind the campaign is simple - the animals are conveying a message to their viewers which says 'Don't let this be my last selfie.'

The timed message functionality on Snapchat was used to highlight that time is running out got the endangered species. After one week 400,000 tweets hit 1120 million twitter timelines meaning 50% of all active twitter users were exposed to it.

With headlines in more that 6 languages #LastSelfie raised global awareness and in just three days WWF reached their donation target for the entire month.

Art: Book Illustration



Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Architecture	Buildings and the built environment.
Cross-hatching	Repeated crossing stokes of drawing that represent tone.
Muted	Low-level or desaturated.
Atmospheric	Creating a strong feeling or emotion.
Dilute	To decrease concentration , e.g. of watercolour paint by adding water.
Tier 2	Definition

Tier 2 vocabulary	Definition
Watercolour	Paint consisting of pigment in a water-soluble binder.
Transparent	Able to be seen through – not opaque.
Palette	A surface on which paint can be contained and mixed.
Detail	An individual or small part of an item
Highlight	The lightest parts of an object, drawing or painting. Where the light hits or reflects off an object.
Opaque	Unable to be seen through – not transparent.
Texture	The way a surface feels or would appear to feel.
Illustrator	One who produces illustration
Illustration	Artwork for printed media, etc.

Artist: Ian Murphy



Ian Murphy (b. 1963) is a British artist. His works often feature architecture or architectural details. Some feature strong cross-hatched line work and layers of texture., with tone built up with thin layers of paint. Colour in Murphy's work is often dark or muted. Together, this creates highly detailed, atmospheric artwork.

In the video linked below, Ian Murphy talks about his process as he works.

bit.ly/bsadim



WATERCOLOUR

A huge range of colours can be achieved with watercolour paint, but at first glance the palette can seem very dark. The image below names the colours on the palette.



Most of these paints produce rich, transparent colour. Lighter colours are produced by diluting the paint further. The white paint is more opaque and can be used to add highlights on top of dried paints.

bit.ly/bsadwatani

View the short video linked below about some common mistakes to avoid when using watercolour.

bit.ly/bsadwatcol

Drama: <u>D.N.A</u>, A Script by Dennis Kelly.



Section 1: Key Voc	abulary	Section 2: Exploring:Characters	Section 3
Tier 3 vocabulary Role	Definition An actor's portrayal of someone in a play.	The character traits and the moral choices they make are more important than a name.	<u>Structure of the play:</u> The structure of the play The play has been constructed with a cyclical narrative. The structure repeats itself and
Role play	A theatrical exercise that includes a mix of improvisation, designed to allow an actor to step into the shoes of the character.	Jan and Mark appear together at the beginning of each section. They act as narrators or as a 'Greek chorus' and throw the audience directly into the action at the beginning of each section. They are also used to fill in any blanks for us and make us aware of any new	when we read the play, we come to realise that there is a pattern to the sequence of the different scenes – and to the three different locations. For example, the first scene is always Mark and Jan in A Street, who introduce the problem of that particular section. Then it's Leah and Phil, before moving on to a greater scene with
Improvisation	Improvisation can tell us created information about the character outside of the world of the play.	developments in the story. Leah and Phil are another pair of characters who always appear together. Leah is the talkative one and Phil is the	everyone where the problem is solved. This sequence is repeated throughout the play and below is an overview in order to see the exact structure of the play.
Back Story	Backstory is a set of events that have occurred before the main story. These events can either be alluded to, described by one or more characters, or shown in flashback.	 character that doesn't say anything in scenes where they are together, but just eats. Leah obviously adores Phil, but he just ignores her. Lou, is a follower – she swears a lot and again panics over Adam's death. Although she is on stage a lot, she is often quiet. 	The Messages of the play: "The main themes of the play are bullying, gang membership, social responsibility, morality and leadership. The characters remain in role in the interview-style sequences, commenting on the events of the play and explaining their views on the events and their role in what has taken place." Dennis Kelly
Original Staging Conditions	The manner in which the first performance of a play was designed and staged.	John Tate only appears in one scene – Scene 3 Section 1. When we first see him, he appears to be the leader of the group. This doesn't last long, and his leadership is challenged.	Themes Many themes in <u>DNA</u> challenge the audience to reflect upon our role in society and whether our life should simply be about self-preservation or whether we should
Section 1: Key Voc	abulary	Danny is intelligent but is a follower. He is disturbed by Adam's death and is terrified that it will affect his future	always consider society in general when we act.
Tier 2 vocabulary	Definition	 he wants to be a dentist. Richard seems to be a responsible character and when 	"I am hoping that our production will help students see the wider social conversation that we are having
Character	A person portrayed in a drama, a novel, film, TV or other artistic piece.	we first meet him, he appears to have the potential to be a leader. Cathy finds the whole situation exciting and 'better	about what happens to society if you only act in terms of self interest, what we see in this play is a group of young people who act in the interest of self- preservation, but ultimately what happens is you see
Character Traits	These are parts of a person's behaviour and attitude.	than ordinary life' (p. 16). Brian is the weakest link in the group. The other characters must see him as such.	the effect that has on everyone else." Tom Walsh, Birmingham Theatre. A self-replicating material that is present in nearly all
Character development	The process of building a unique, three-dimensional character with depth, personality, and clear motivations.	Adam a boy. He does not appear physically until Section 3. When he appears, it is a massive shock to the others that he is still alive.	living organisms as the main constituent of chromosomes. It is the carrier of genetic information.

Music – Making An Arrangement



Section 1: Key Voc	abulary	Section 2:	
Tier 3 vocabulary	Definition	What is an arrangement?	
Verse	The section of the songs that tells the story. In each verse the melody will remain the same, whilst the words change	An arrangement is a new and different versior an existing song created by a musician. We ca call these arrangements cover versions.	
Chorus	The repeated part of a song that delivers the main message	 Arrangements are very common in popular muse and original material may be changed (or rearranged) by changing the tempo, 	
Harmony	The chords used within the song	instrumentation, timbre/sonority, tonality, melody, harmony or rhythm.	
Texture	The layers of music and how they interact	Scan me to lis to different co versions	
Timbre/Sonority	To tone quality produced by the instrument or vocalist		
Riff/ Hook	A short repeated pattern. A riff is instrumental and a hook is vocal	Instruments within pop and rock music	
		Pop and rock bands often feature the followin instruments:	
Tier 2 vocabulary	Definition	 Drumkit – this provides the rhythm and l the song Electric Guitar – the lead guitar plays the 	
Structure	The order in which things happen within a song.	melody and the rhythm guita r plays the chords/harmony	
Arrangement	A new version of existing material. A cover version	 Bass Guitar: plays the bass line. This will be based on the chords/harmony used in the s Acoustic instruments such as: piano and acoustic guitar. They will play the harmony/chords Vocals - The lead singer will sing the main melody and the backing vocals will provide harmony 	
Melody	The main tune		
Ensemble	A group of musicians performing together		
Solo	A single musician performing on their own		



Links to prior learning: What Makes a Good Song

Year 9 Rotation 2

2 D&T FOOD: Booklet 2 Diet through life/ Special Dietary Needs



Section 1: Key Vocabulary	
Tier 3 Definition vocabulary	
Colostrum	The very first "Milk" produced when a baby is born. It is rich in nutrients and antibodies to protect the baby who is born with no immune system
Folic Acid	Folic Acid is the synthetic version of the Vitamin B9 (Folate). Recommended during pregnancy to prevent neural tube defects.
Anaemia	Deficiency disease caused by a lack of iron in the diet.
Body Mass Index	A method of calculating whether ADULTS are at the recommended weight for their height.
Osteoporosis	Sometimes known as "brittle bone" disease. More likely (but not only) to occur in older women. occure
Anaphylaxis	Severe potentially life threatening allergic reaction

Tier 2 vocabulary	Definition
Infancy	. Birth to early years (toddlers)
Adolescence	Teenage years
Lactation	Breast feeding
Weaning	Moving from breast milk to soft foods
Menstruation	Also known as periods. Girls lose blood monthly and are more prone to anaemia
Menopause	As women age they stop having periods, their hormones change and their dietary requirements change.
Vegan	Eats no ingredients which have come from animals / fish /birds /insects
Vegetarian	Doesn't eat meat & fish but will eat eggs, milk & cheese

Section 2: New Knowledge/Skills A food intolerance means that the body can't digest food properly, or that a particular food might irritate the digestive system. (e.g. coeliac disease) Symptoms include nausea, cramps, tummy ache, diarrhoea.

A food allergy happens when the body's immune system sees the food as an invader. This leads to an allergic reaction. Someone with a food allergy is always at risk for the next reaction being life-threatening. Eating a tiny amount of the food could lead to anaphylaxis. So anyone with a food allergy must avoid the problem food and always carry emergency injectable epinephrine. (Epi- pen)

The 14 allergens which must be labelled in bold are celery, cereals containing gluten (such as barley and oats), crustaceans (such as prawns, crabs and lobsters), eggs, fish, lupin, milk, molluscs (such as mussels and oysters), mustard, peanuts, sesame, soybeans, sulphur dioxide and sulphites

Red Tractor is a food assurance scheme showing the food has been farmed, processed and packed in the UK. It is traceable, safe to eat and has been produced responsibly.



Marine Stewardship Council Using sustainable methods of fishing to prevent the decline in number of fish in our seas.

Organic means the food has been produced without using any chemicals. Only natural fertilisers and pesticides are used to help crops grow.



Foods that have this label mean the animals have had a good life and have been treated with respect & farms checked by the RSPCA

Factors affe	cting food choice
Factor	
Cost	Some families have to budget due to low incomes
Age Group	Different age groups have different nutritional needs
Health	e.g. type 2 diabetes, anaemia, osteoporosis, obesity
Vegetarian Vegan	Don't eat meat/fish; don't eat or use any animal products
Religion	e.g. Hindu/Muslim/Jewish/ Buddhist etc
Intolerance	e.g. intolerance to wheat /gluten, dairy/lactose
Allergies	e.g. nuts/shellfish, eggs, wheat, dairy (14 allergens)

Heat Transfer

Conduction - heat transfer through physical contact e.g. the base of a pan on a hob Convection - convection currents tend to occur in liquids (e.g. boiling water) and gases . Hotter particles rise and cooler particles drop. Radiation - thermal radiation is emitted from a heat source e.g. the grill, and travels to the food via particles in the air (photons)

Homework

Read through the information in your booklet and on the Knowledge organiser about diet through life then complete the Google classroom quiz. (Ask your teacher for a paper copy if needed.)

Year 9 Rotation 2

D&T TEXTILES: Accessorise This



Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Prototype	A quick version of your design to test the initial idea.
Aesthetics	What a product looks like, Colour, shape, style etc
Components	Anything in the textile product that is not made of fabric. Eg. Zip, button, press stud
Embellishment	The application of stitching, trimmings, threads, braid, ribbons and beads to decorate a fabric or textile.
Pattern	Paper templates that show the shape of the fabric pieces that must be cut out to make a product
Context	The setting for an event, statement, or idea.
Couching	The process used to secure threads, fibres or yarns to a surface using hand stitching or embroidery.
Tier 2 vocabulary	Definition
Form	The shape, aesthetics. What something looks like.
Function	How well does the product perform the job it was designed to do?
Specification	A list of targets the design must meet
Evaluation	Making a judgment about a product or design

Section 3: Knowledge

Looking for inspiration

Textile designers look in many places for inspiration. You will look at one of the following themes:

- Superheroes

- Literary Adventures
- Couture Fashion
- Sporting Advantage



When you have chosen your CONTEXT you will use it to

develop your own project. You will have the

responsibility to select WHAT you are going to make,

WHY you have chosen to make it, HOW you will make it and WHAT you will make it from.

Surface Decoration

You have worked with many different types of surface decoration in your previous textile projects. In this project you will need to pick the most relevant ones to your design:

- Stencil •
- Applique
- Block printing
- Embroidery
- Cross stitch
- Buttons/beads/sequins
- Fabric crayons
- Digital Fabric design and printing

You have also learned how to create patterns/templates and sew a zip in amongst other things! Can you explain how each of these processes work? Can you decide which are the most appropriate to use in your design?





Year 9 Rotation 2

D&T Product Design – Mood Lighting Clock



Section 1: - k	(ey Vocabulary		Se
Tier 3 Vocab	r 3 Vocabulary		So
Biscuit Joint	Small oval shaped piece of wood used to join two sections of larger wood together		
Light Dependant Resistor	LDR – A resistor which changes it's ability to resist the flow of electricity based on the light		Die
	level		Bis Joi
Pillar Drill	A machine drill used to accurately drill holes in wood, metal and plastic		Pill
Printed	PCB – Plastic board which is		
Circuit Board	printed with copper track and soldering pads, used to link electronic components together		2D sof
Tier 2 Vocab	Tier 2 Vocabulary		
Cost	Details about the cost of materials, manufacture, and retail price of a product		Ap of cut
Aesthetic	What the theme, colour scheme and look of a product		
Function	What a product is intended to do and how		Pro Ass
Ergonomi c	Detailed about how easy it is to interact with a product, including how it feels		He Sat
Quality	How well a product is made, and	 	Sec
	how it effects the durability and material choice		-
User	How is the intended target market of the product.		
Environm ent	How does your product effect the environment, from raw materials to end of life		ľ

Section 2: Skills	
Soldering	Being able to solder 'on and off board' components based on a schematic diagram independently Soldered joints should be neat, use the correct amount of solder, they should be shiny to avoid 'dry joints', with errors being independently identified and repaired.
Biscuit Joint	Mark out joints, then uses a biscuit jointer under close supervision to joint join 2 panels of wood
Pillar Drill	Set up, including the changing the drill bit, to cut small and large diameter holes in wood to a fixed depth and through cut
2D design software	Use CAD software create a themed design, considering suitable and secure location of the PCB, power, and the inputs & outputs
Application of laser cutting	Understand the set up requirement needed to laser cut and engrave materials, including the use of colour to define cut type, and power/speed setting requirements for different materials
Product Assembly	Create a high quality, fully functioning, electronic product from a collection of parts. Including the use of glues and fixing techniques
Health and Safety	Consistently use a wide range of tools and equipment safety, always using the correct PPE
Section 4:- WAG	OLL
	Peopo

Section 3:- New Knowledge

Product Analysis and Evaluation

 Complete an in depth evaluation of your own completed practical work, and a similar commercial product using the common evaluation techniques, including CAFEQUE and LCA

Design Theme Research

 Develop your knowledge of a well known designer or design house, being able to explain their style and ethos. Apply this design style to a product





Alessi



PlaySam

Memphis

mphis De Stijl

Life Cycle Assessment

Understand the concept of LCA and how it applies to every stage of a products life. Apply the concept to your product during the evaluation.



Risk Assessment

- Understand the meaning off, and difference between a hazard and a risk.
- Identify people at risk and control measures which can be put into place to make an activity safer
- Complete a formal risk assessment for skills/tools/machines which are used to make the clock project

Processes

Be able to explain the competent safe use of the following machines using annotation and sketches.

- Pillar Drill
- Biscuit Jointer
- Strip Heater/Line Bender

PSHE: British Values



Key Vocabulary	
Tier 3 vocabulary	Definition
Democracy	a government which is elected by the people. Everyone who is eligible to vote has a chance to have a say in who runs the country.
Anarchy	a condition of lawlessness brought about by the absence of a government.
Communism	a government which owns things like businesses and farms. It provides its people's healthcare, education and welfare.
Monarchy	a country is governed by a king or queen.
Dictatorship	a country is ruled a single leader. The leader has not been elected and may use force to keep control.
Citizen	A legally recognized subject or national of a state or commonwealth, either <u>native</u> or <u>naturalized</u> . E.g 'A British citizen'.
Tier 2 vocabulary	Definition
Value	 Something's worth or usefulness. Standards of behaviour; a judgement of what is important in life
Tolerate	allow the existence, occurrence, or practice of (something that one dislikes or disagrees with) without interference.
Respect	due regard for the feelings, wishes, or rights of others.



Why is Democracy Important?

Why Vote?

It is important to vote and participate in politics because your representatives are making choices and decisions on your behalf.

Members of Parliament (MPs) and local council members are responsible for making decisions in terms of distributing resources and funds.

By voting and participating, citizens are able to express their views to the decision makers about a wide variety of issues on a local and national level such as:

- when litter is collected
- how electricity is generated
- what should be learned in schools

