

Name

ΤG

Year 10

Knowledge Organisers

Term 1 - 2023

Year 10 Term 5 Quizzing Homework - Question Bank

Child Care	Computer Science
Year 10 Child development term 1	Computer Science Yr10
 How many food groups are included in the Eat Well Plate? Name a food fond in the dairy and alternatives section of the eat well plate Name a food found in the fruit and vegetable section of the eat well plate. What age is the Eat Well Plate aimed at? Name 1 of the 8 tips for healthy eating? Why does a child need to eat Protein? Name a source (where it is found) of protein Why does a child need to eat carbohydrate? Name a source (where it is found) of starchy carbohydrate. Why does a child need to eat Calcium? What is stunted growth? What is obesity? Lack of which mineral can lead to anaemia? What is rickets? Name a nutrient needed to provide energy Lack of which nutrient leads to stunted growth? Too much of which nutrient(s) can lead to obesity? What type of fat should we try to eat once a week? What type of fat should we try to eat less of? Why do we need fat in a child's diet? 	 What is the purpose of a flowchart? What is Decomposition? Explain how you used Decomposition to get to school What is a syntax error? What is a logic error? What does the flowchart represent in the diagrams section? Draw and label the different flowchart shapes. Draw a flowchart for a program that allows a user to enter their username and password to lo on to the computer system Write the pseudocode for a program that allows a user to enter their username and password to log on to the computer system. What is the difference between Division and Floor division? What symbol do we use to represent greater than or equal to? What symbol do we use to represent not equal to? Write the pseudocode for a program that allows the user to input 2 numbers and calculate the total of them added together.

Knowledge Organiser questions – Power and
Conflict poetry (War cluster)
1. 2 pairs of stressed syllables, followed by two
 2 pairs of stressed syllables, followed by two unstressed syllables is called

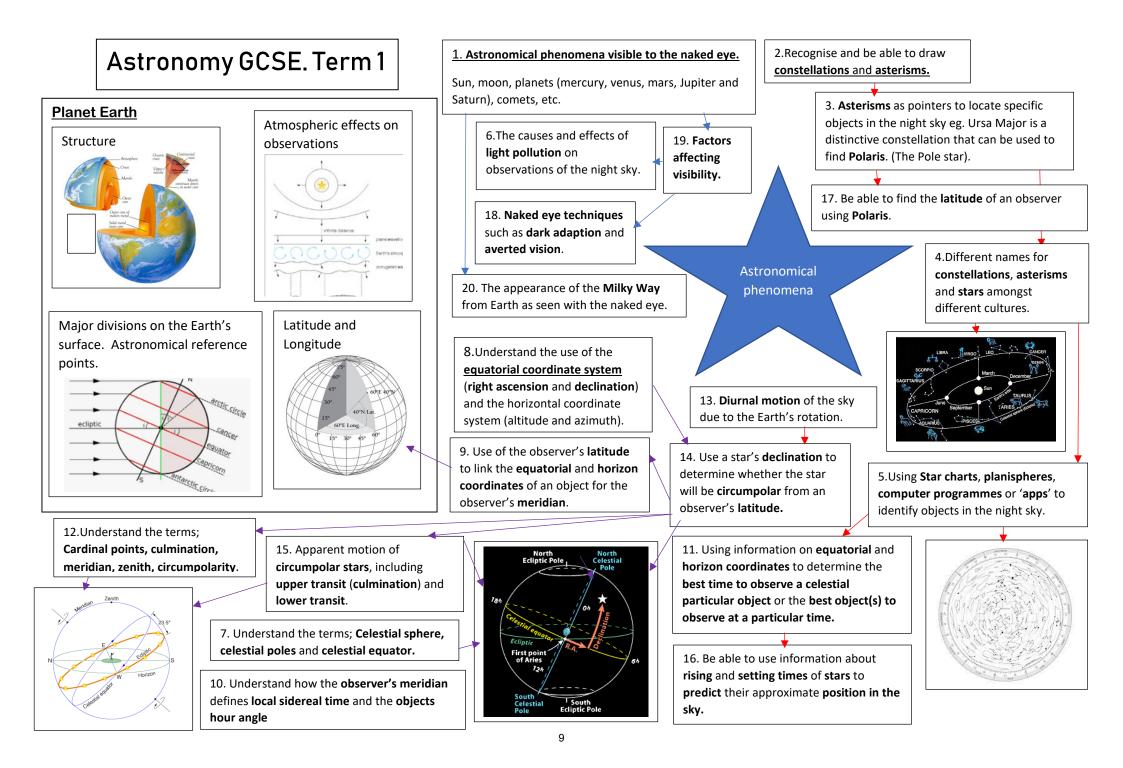
Engi	ineering
Year 1	0 20 Questions – Engineering
1	What is a sustainable fuel source?
	What does renewable mean?
	Why is carbon dioxide an issue to the
5.	environment?
Д	What is fission?
	What is Biomass?
	What is blomass? What fossil fuels are used to generate
0.	electricity?
7.	Name 2 ways of storing electricity?
	What is the National Grid?
	What voltage do we use in the UK?
	. What does Global warming mean?
	. What is a risk assessment?
12.	. What does tolerance mean when looking at
	materials?
13.	. What is stock size?
14.	. What is a ferrous metal?
15.	. Name a ferrous metal and what its
	properties are?
	. What is an alloy?
	. Name an alloy and describe its properties?
	. What is engineers blue?
	. When would you use a Vernier calliper?
20.	What is draw filing?

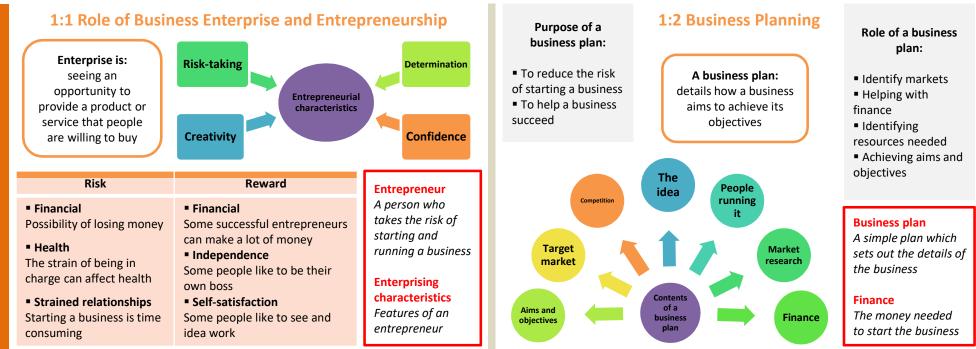
French	Food		
Year 10 French Term 1 Quizzing	Year 10 20 Questions – Food Preparation & Nutrition		
 A] Learn the Verbs, Nouns and Opinions sections on your KO and then translate these into French: luse my computer to look for information and to watch videos luse my laptop to help me with my homework luse my mobile to chat with my friends on social networks l can't live without B] Answer these questions in French in full sentences. Use your KO to help you create your answers, then learn your answers and practise writing them from memory: Comment utilises-tu la technologie ? What do you use technology for? Quelle est ton opinion des réseaux sociaux? What is your opinion of computer games? Quelles sont les avantages de la technologie? What are the advantages of technology? 	 Name the 2 water soluble vitamins? Name the 4 fat soluble vitamins. Name 4 minerals Name the 3 macronutrients. Which macronutrient is a secondary energy provider? What does EAR stand for? What does BMR stand for? What nutrients does a teenage girl specifically need? What is the function of vitamin A (retinol). What is the function of Iron? State 4 diet related diseases. If you are suffering from goitre – you are lacking in what? How can you reduce high blood pressure? What is the function of vitamin E? How can you minimise vitamin losses when cooking food? What does fortification mean? State a food which is fortified and with what nutrients? Scurvy is due to a lack of which vitamin? Iron helps to prevent which diet related disease Explain what is the Eatwell Guide. 		

Geography	Music Year 10 Term 1		
Living World Quiz Questions			
 Define ecosystem What is the difference between the biotic and abiotic parts of an ecosystem Name a producer in a small-scale ecosystem you have studied Define biome What is the role of the decomposers? What is the litter layer? The total weight of living things in an ecosystem is known as the Name the four layers of the rainforest How have plants adapted to the rainforest climate? Describe the distribution of the rainforest What are the causes of deforestation in rainforests Identify and explain 3 different rainforest plant adaptations List four ways that the rainforests can be managed sustainably Describe the distribution of the deserts What are the opportunities for people living in deserts? What are the challenges of living in deserts? How have desert plants and animals adapted to the harsh environment? Define desertification List three human causes of desertification can adapted to the harsh environment? Define desertification List three ways that desertification can be managed 	 How many beats in a bar is Popular music usually in? What instruments would you usually find in a Pop/Rock band? What is the typical structure of a Popular song? What is a riff? What are the main dynamics of Popular songs? Name some technological effects that could be used in Popular songs What do you call the people who sing harmonies in Popular songs? What is the main texture of Popular music? Name the typical instruments that are used in Bhangra music What is a syllabic word setting? What is a melismatic word setting like? What is a melismatic word setting like? What is the musical word for how the music is organised? What is the musical word for how loud or quiet the music is? What is the musical word for how fast of slow the music is? What is the musical word for how many layers there are in a piece? What are the two main types of tonality? Also recognising images of the following instruments: Electric Guitar Bass Guitar Acoustic Guitar Keyboard Synthesiser Drum Kit 		

Science	
37	P2.2
1. What is an ecosystem?	
2. What is a community?	1. What is the voltage of mains electricity in the
3. What is a habitat?	UK?
4. What is interdependence?	2. What is the frequency of mains electricity in the
5. What is a quadrat?	UK?
6. Why are quadrats used?	3. What is direct current?
7. Describe how a quadrat should be used	4. What sorts of power supplies produce direct
8. What is a transect line?	current?
9. What are adaptations?	5. What is alternating current (a.c.)?
10. Why do animals need to adapt?	6. What sort of power supplies produce alternating
11. Give three adaptations of animals that live	current?
in warm environments	7. What colour is the neutral wire in a plug?
12. Give three adaptations of animals that live	8. What colour is the Earth wire in a plug?
in cold environments	9. What colour is the live wire in a plug?
13. What is a food chain?	10. What is the function of the live wire in a plug?
14. What is a food web?	
15. What do the arrows in food chains	
represent?	
16. Where does energy in a food chain come	
from?	
17. What is a producer?	
18. What is a consumer?	
19. What is a primary consumer?	
20. What is a secondary consumer?	
21. What is a tertiary consumer?	
2 – Bonding and structure	
1. When does ionic bonding occur?	
2. When does covalent bonding occur?	
3. What is a bond?	
4. What is an alloy?	
diamond and graphite?	
6. How do metals bond?	
7. What are the properties of ionic	
compounds?	
8. What are the properties of covalent	
compounds?	
9. What is a delocalised electron	
10. Draw graphite	

Spanish
Learn the yellow and green sections on your KO and
then translate these into Spanish:
1. If I had late of manager lives dates
1. If I had lots of money, I would go to
2. If I could, I would visit
3. I would spend my holidays in
4. If I won the lottery,
5. I would travel around the world
6. when I'm twenty years old
7. when I'm older
8. How exciting!
9. I have just returned from my holidays in Spain.
10. How lucky!
B] Answer these questions about your holidays in
Spanish in full sentences. Use your KO (and the KS3
KOs) to help you create your answers, then learn your
answers and practise writing them from memory:
1) ¿Qué tipo de vacaciones prefieres? What type of
holiday do you prefer?
2) ¿Adónde vas de vacaciones normalmente? Where
do you go on holiday normally?
3) ¿Qué haces de vacaciones cuando hace buen
tiempo? What do you do on holiday when it's nice
weather?
4) ¿Qué haces de vacaciones cuando hace mal
tiempo? What do you do on holiday when it's bad
weather?
5) ¿Cómo serían tus vacaciones ideales? What would
your ideal holidays be like?





1:3 Business Ownership

Sole trader		Partnership		Private Limited Company (LTD)		Public Limited Company (PLC)	
Advantages	Disadvantages	Advantages	Disadvantages	Advantages	Disadvantages	Advantages	Disadvantages
 Easy to set up Little finance required Full control Keep all the profits Financial information is private 	 Unlimited liability Business stops if ill or on holiday Long working hours Shortage of capital Skills shortage No continuity 	 More capital available Easy to set up More skills available Shared workload Financial information is private 	 Shared profit Unlimited liability Shortage of capital Slower decision making No continuity 	 Limited liability Continuity Can raise capital more easily Control over share sale 	 Financial information available to the public Complex and expensive to set up Sale of shares is restricted Dividends to be paid 	 Can raise large amounts of capital Easier to borrow money Limited liability for shareholders 	 Possibility of a takeover Complex and expensive to set up Hard to manage as so large Financial information available to the public
Unlimited liability Responsibility for the debts of the business rests with the owners Capital Money raised to start or develop a business		Deed of partnership A document setting out the operations of the partnership Sleeping partner Someone who only invests in a partnership		Limited liability Responsibility for the debts of the business is limited to the amount invested Shareholders Owners of a limited company		Dividend Money paid to shareholders from business profits	

Unit 1: Business Activity

Child development year 10 term 1 Childhood nutrition Knowledge organiser



The Eatwell Guide

- Comprises 5 main food groups.
- Is suitable for most people over 2 years of age.
- Shows the proportions in which different groups of foods are needed in order to have a well-balanced and healthy diet.
- Shows proportions representative of food eaten over a day or more.

8 tips for healthier eating

These eight practical tips cover the basics of healthy eating, and can help you make healthier choices.

- 1. Base your meals on starchy carbohydrates.
- 2. Eat lots of fruit and veg.
- 3. Eat more fish including a portion of oily fish.
- 4. Cut down on saturated fat and sugar.
- 5. Eat less salt (max. 6g a day for adults).
- 6. Get active and be a healthy weight.
- 7. Don't get thirsty.
- 8. Don't skip breakfast.

Key word The nutritional needs of children aged 0-5 years Eat well plate **Protein** is needed for growth and repair. It is found in milk, cheese, meat, eggs and quorn. Beans and lentils also contain protein. Too little leads to stunted growth Fat Sources of fat include butter, oil, margarine, meat, cheese, milk. Fat gives us energy but also is needed to: Protect vital organs • Carrier of Vitamins ADEK Help brain function Too much can lead to obesity Carbohydrates are needed for energy **Fibre** is a term used for plant-based carbohydrates that are not digested in the small intestine. Sugars are found in sugar, honey and syrup and naturally in fruit. Starchy foods are the main source of carbohydrate for most people and are an important source of energy. We should be choosing wholegrain versions of starchy foods where possible. Stuntea growth Vitamins There are two groups of vitamins: • fat-soluble vitamins, e.g. vitamins A and D. • water-soluble vitamins, e.g. B vitamins and vitamin C. To find out more, go to: **Minerals** Calcium is essential for the maintenance of bones and teeth, blood clotting and normal muscle function.Lack of calcium can Food a fact of life website lead to rickets **Sodium** is needed for regulating the amount of water and other substances in the body. Iron is essential for making haemoglobin in red blood cells. Lack of iron can lead to anaemia

Macro
nutrients
Micro
nutrients
Protein
Fat
Carbohydrate
rickets
obesity
Stunted

	definition
	Shows the proportions in
	which different groups of
	foods are needed in order to
	have a well-balanced and
	healthy diet.
	The nutrients we need to eat
	in large amounts
	The nutrients we need to eat
	in small amounts
	A macro nutrient Needed for
	growth and repair
	A macro nutrient Needed for
	energy
	A macro nutrient Needed for
_	energy
	Illness that causes bone
	pain, poor growth and soft,
	weak bones that can lead
_	to bone deformities
	describes a person who's
_	very overweight
	When children do not grow
	to their full height,
	sometimes due to lack of
	food.

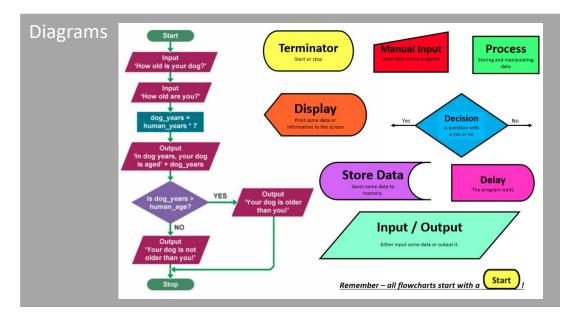
Cambridge National Child Development text book

www.foodafactoflife.org.uk

Computer Science

Key content	Comparative operators			
	==	Equal to		
	! =	Not equal to (or different to)		
	>	Greater than		
	<	Less than		
	>=	Greater than or equal to		
	<=	Less than or equal to		

Arithmetic operators						
Operation	Symbol	Example	Output			
Addition	+	2 + 10	12			
Subtraction	-	9-6	3			
Multiplication	*	5*4	20			
Division	/	5/2	2.5			
Floor Division	11	7//2	3			
Remainder	%	7%3	1			



Key vocab

Word	Definition
Abstraction	The process of removing unnecessary details and including only the relevant details. It is a method of computational thinking that focusses on what is important in problem solving
Decomposition	The process of breaking a complex problem down into smaller more manageable parts. Dealing with many different stages of a problem at once is much more difficult than breaking a problem down into a number of smaller problems and solving each, one at time.
Flowchart	A method of representing the sequences of steps in an algorithm in the form of a diagram. Sometimes called a Flow diagram
Structure Diagram	A diagram showing a top-down breakdown of a complex problem
Pseudocode	A text based alternative of representing the sequences of steps in an algorithm. Pseudo-code can be thought of as a simplified form of programming code.
OCR Reference Language	You must be able to read this but you can always use Python in your exams— but be precise
Syntax Error	Syntax errors are errors which break the grammatical rules of the programming language. They stop it from being run/translated
Logic Error	Errors which won't stop the program running. Logic errors are errors which produce unexpected output. E.g Outputting an answer that was multiplied when it should have been taken away

More info can be found here: https://youtu.be/wLJ1n47sGRI

Drama Stage	Positions	Types of Staging	Introduction to Drama GCSE
Word	Definition	Word	Definition
Stage positions	Where an actor or prop or set piece is on stage	In the round	Audience sit in a circle, staging can't obscure the audience's view and so has to be limited in height and careful attention to movement is required to avoid backs to the audience.
Stage left/stage right	It is the actor's left or right, as if you were the actor stood on stage	Traverse	Audience sat either side of the stage, similar to a cat-walk. Again staging can't obscure the audience's view and actors should not keep their back to the same section of the audience for too long.
Upstage/down	looking at the audience In the past, stages were sloped towards the audience. Walking closer	Thrust	Thrust stage: Audience sit on three sides of the stage, this staging type does not have curtains to separate the audience from the stage which makes it difficult to change sets during a performance.
stage	the audience would literally be alking "down".	End-on/Proscenium Arch	The audience sit on raked seating, all facing the same direction. 'As if looking through a window', it is easier for an actor to block out the audience and also can create and use elaborate backdrops and sets.
Backstage	Out of the view of the audience e.g. the wings or the dressing rooms. It's the stage manager's domain.	Promenade	The audience are able to move from place to place through a story, allows for a very immersive experience and can draw on the environment for inspiration.

Role	Responsibilities of role	
Director	In charge of all artistic elements of the play, works will all other roles, "concept"	
Playwright	Writes the play	
Performer	Realises a role within the play	
Understudy	Learns the cues and lines of blocking of lead part in case of sickness	
Light/sound/costume/set designer	Designs, plans and sources for their role	
Technician	Work backstage setting up/running technical equipment e.g. microphones, lights, sound	
Stage manager	Everything BACKSTAGE. Moves with the production, in charge of props and rehearsal schedule	
Theatre manager	Everything FRONT OF HOUSE. Stays in the theatre, in charge of box office and ice cream	

By the end of this term you have been introduced to the play-text

we are going to study. "Blood Brothers" by Willy Russell. Including characters, themes and context.

DESIGN TECHNOLOGY YEAR 10 MODULE 1 ENERGY GENERATION AND STORAGE

KEY WORDS

Fossil fuels:- a natural fuel such as coal. oil or gas, formed from the remains of living organisms.

Global warming:- an increase in the temperature of the earth's atmosphere caused by the greenhouse effect and increased levels of greenhouse gases.

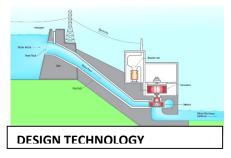
Fission:- the process in which uranium atoms are split and produce heat.

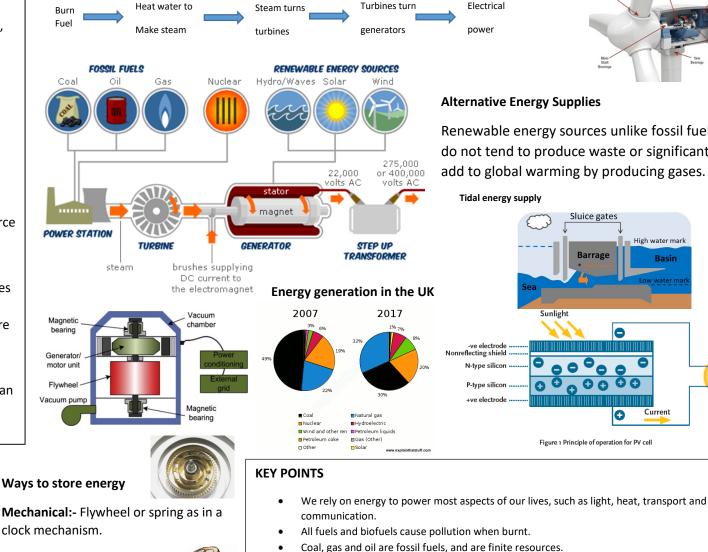
Renewable energy:- energy from a source that is not depleted when used, such as wind or solar power.

Hydroelectricity:- the process which uses a dam to block a river in a valley and channels water through turbines that are used to turn generators for producing electricity.

Biomass:- growing plants so that they can be burnt, or using decaying plant or animal materials to produce heat.

Kinetic pumped storage system





Most renewable sources reduce the risk of pollution. .

Turbines turn

- Many renewables cannot provide a constant supply, unlike fossil fuel or nuclear-powered ٠ power stations.
- Storage systems cannot generate power, but are useful for when extra supply is needed quickly, or if it is not possible to connect to a supply.

Inside a wind turbine

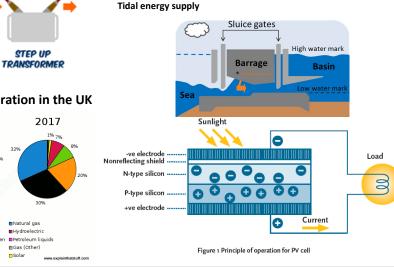


Alternative Energy Supplies

Flectrical

power

Renewable energy sources unlike fossil fuels do not tend to produce waste or significantly add to global warming by producing gases.



Mechanical:- Flywheel or spring as in a clock mechanism.

Fossil fuels generation

Electrical:- Capacitor or Battery

14

Poem	A03 context	A02 form, Structure, language	A01 Key Quotations	AQA Power and Conflict
Charge of the Light Brigade 1854) Alfred Lord Tennyson	Based on the Crimean War where a miscommunication sent the Light Brigade into combat. Tennyson was poet Laureate, which could explain the propogandist tone.	3rd Person. Strong rhythm and regular rhythm - Dactylic Dimeter is used to reflect the horses hooves Repetition and anaphora emphasises relentless forward motion of the soldiers and how they followed orders.	'into the jaws of death, into the mouth of hell' 'cannon to the left of the, cannon to the right of them, canon in front of them.	<u>Knowledge organiser – Part</u> <u>1 (war cluster.)</u> <u>Iasks:</u> Use the table as a starting point
Exposure (1971) Wilfred Owen	Owen fought in France during World War I; the poem records the horrendous conditions that British soldiers experienced on the front line.	Para-rhyme scheme of ABBAC- reflects uncomfortable conditions of the soldiers. Also uses assonance ,	'Our brains ache in the merciless iced east winds that knife us'. 'sudden successive flights of bullets streak the silence'	Create a glossary of poetic techniques. Start by finding the meanings of the words highlighted in bold in the chart. Include Form, Structure and
Bayonet Charge (1957) Ted Hughes	Hughes writes from the perspective of a soldier charging across no-man's land; the solider is disorientated and fearful.	Verbs and enjambment- gives a frantic feel to the poem – reflects the soldiers movement. Semantic fields of war and nature are juxtaposed, showing impact of war on nature.	'Bullets smacking the belly out of the air' 'King, honour, human dignity, etcetera/ Dropped like luxuries in a yelling alarm'	 language key terms. Create revision cards for each of the poems. Identify 3-4 key quotations in the poems. Mine the language used
Remains (2008) Simon Armitage	Armitage writes from the perspective of a solider in the Middle East; the solider returns home suffering from post-traumatic stress syndrome (PTSD).	Short clauses, enjambment and colloquialisms creates an impression of natural speech. Enjambment also reflects continuing nature of memories after war.	'I see every round as it rips through his life' 'his blood shadow stays on the street and out on patrol I walk over it week after week'	 in these quotations. Learn the key quotations. Identify the themes in the poems make links between the poems/group them together by
Poppies (2009) Jane Weir	Weir writes from the perspective of a mother whose son has gone to war; the poem explores the conflicting emotions experienced by those who are left behind	First person dramatic monologue allows us to see inner emotions of the speaker. Frequent Symbols and Metaphors used to highlight powerful emotions.	'spasms of paper red' 'steeled the softening of my face' 'later a single dove flew from a pear tree'	 Make links between the poems. Write a comparative essay – Use the link below for questions.
War Photographer (1985) Carol Ann Duffy	Duffy based the poem on accounts from Don McCullin; the poem invites us to reflect on our increasing lack of sensitivity to the images of war we see in the media.	Regular rhyme and stanza length used to reflect the disciplined way the photographer does his job. Contrasts used to highlight intensity of war and indifference of the reader.	'spools of suffering set out in ordered rows' 'his hands, which did not tremble then though seem to now.'	Revision websites/useful links: Mr Bruff videos on all of the poems: https://www.youtube.com/playlist?list=P LgGFsWf-P-cAO64IBHZTFwTz2X0DD Cxk
Kamikaze (2007) Beatrice Garland	Garland based her poem on the testimony of the daughter of a kamikaze pilot; the conflict in the poem centres on Japanese cultural and social expectations.	Italics used to show direct speech and impact of the mother's words. Colour imagery, similes and metaphors suggest the vibrancy of life that the pilot did not want to lose.	'strung out like bunting on a green-blue translucent sea' 'he must have wondered which had been the better way to die.'	Notes and annotations on all poems: http://thebicesterschool.org.uk/wp- content/uploads/2017/02/Poetry- Support-Booklet.pdf
The Emigree (1993) Carol Rumens	Rumens writes from the perspective of a person who has left their home country; there is conflict between childhood memories and adult understanding	Written as a Soliloquy. Repetition of 'they' suggests menace and oppression and r epetition of 'Sunlight' is used as a symbol of freedom, contrasting with metaphors if isolation.	'it may be sick with tyrants, but I am branded by an impression of sunlight' 'My city takes me dancing'	Practise questions: https://www.turton.uk.com/wp- content/uploads/sites/2/2017/01/Resou rce-25-Conflict-poetry-questions.pdf

Food Labelling

Food labelling

Manufacturers include a range of information on food labels. Some of which is legally required and some of which is useful to the consumer or supermarket.

Nutrition information helps consumers make healthier choices. Back-of-pack nutrition information is legally required on food packaging.

NUTRITION

When heated according to instructions

Front-of-pack labelling

energy only;

Nutrient Low

Note: Portion size

than 100g.

criteria apply to portion

sizes/servings greater

Fat

Saturates

(Total

Salt

sugars)

Typical values	Per	Each pack
	100g	(390g**)
Energy	457kJ	1781kJ
	109kca	424kca
Fat	3.9g	15.2g
of which saturates	1.9g	7.5g
Carbohydrate	12.1g	47.1g
of which sugars	1.6g	6.2g
Fibre	1.1g	4.2g
Protein	5.8g	22.6g
Salt	0.6g	2.2g

Front-of pack-nutrition information is voluntary but if a food business

energy along with fat, saturates, sugar and salt.

Medium

>3.0g to ≤

>1.5g to

100a

>0.3g to

≤1.5a/100a

7.5g/100g

≤5.0g/100g

>5.0g and ≤22.5g/

Energy 2368kJ 563kcal

coding can be used to compare two products.

≤3.0g/100g

≤1.5g/100g

≤5.0g/100g

≤0.3g/100g

chooses to provide this, only the following information may be provided:

Red, amber and green colours, if used, show at a glance whether a food

is high, medium or low for fat, saturates, sugars or salt. The colour

Legally required information

- 1. Name of food or drink.
- 2. List of ingredients (including water and food additives), in descending order of weight.
- 3. Weight or volume.
- Date mark (Best-before 4. and use-by).
- 5. Storage and preparation conditions.
- 6. Name and address of the manufacturer, packer or seller.
- 7. Country of origin and place of provenance.
- 8. Nutrition information.
- Additional information may also be provided, such as cooking instructions, serving suggestions or price.

7.5g/100g >21g/portion

>6.0g/portion

>27g/portion

>1.8g/portion

>5.0g/100g

>22.5g/100g

>1.5g/100g

Per pack

32%

Typical Energy values per 100g: 554kJ/132kcal

% of an adult's Ref

15%

To find out more, go to:

https://bit.ly/2SPnj1g

32%

Date marks

Best-before-date: The date after which foods may not be at their best, although probably safe to eat if stored according to instructions.

Use-by-date: The date given to foods that spoil quickly, such as cooked meats. It is unsafe to eat foods beyond their use-by-date.



Beetroot salad

Keep refrigerated. Once opened consume within 24 hours and by the 'use-by' date shown.

Allergen labelling

An allergic reaction to a food can be described as an inappropriate reaction by the body's immune system to the indestion of a food. By law, food, drink and ingredients that are known to contain allergens are required to be in **bold**.

Milk

Nuts

Molluscs

Mustard

Peanuts

Sesame

Soybeans

Sulphur dioxide

highlighted, underlined or in italics.

The most common allergens are present in:

Celery (and
celeriac)
Cereals containing
gluten
Crustaceans
Eggs
Fish
Lupin
-

INGREDIENTS

Water, Carrots, Onions, Red Lentils (4.5%), Potatoes, Cauliflower, Leeks, Peas, Cornflour, Wheat flour, Cream (milk), Yeast Extract, Concentrated Tomato Paste, Garlic, Sugar, Celery Seed, Sunflower Oil, Herb and Spice, White Pepper, Parsley

ALLERGY ADVICE

For allergens, see ingredients in **bold**

Additives

Food additives must be shown clearly in the list of ingredients on food labels, either by the additive's name or E number. Additives are added to ensure safety, increase shelf life or improve the taste, texture or appearance of food. Additives need to be approved before they can be used. Additives are given an 'E number' to show that they have been rigorously tested for safety and have been approved for use in food by the European

Commission. An example is E100 or curcumin, made from turmeric.

Another example is caramel (E150), a synthetic colouring commonly used to colour colas.



Nutrition and health claims

Nutrition and health claims are controlled by European regulations. Claims on a food or drink should have been authorised and listed on the European register of claims and have met certain conditions.

Nutrition claims

A nutrition claim describes what a food contains (or does not contain) or contains in reduced or increased amounts. Examples include:

- Low fat (less than 3g of fat per 100g of food);
- High fibre (at least 6g of fibre per 100g of food);
- 100g of food).

Health claims

A health claim states or suggests there is a relationship between a product and health. In order to make a claim, the amount present of the nutrient, substance or food must fulfil the specific conditions of use of the claim. The types of health claims are:

- 'Function Health Claims'; •
- 'Risk Reduction Claims': •
- Health 'Claims referring to children's development'.

Tasks

- 2. consequences of not following them.
- 3. Find a range of different products and assess the traffic light system on each one for improvements.
- Using your class notes, explain what 'e' means on a package.

Food Preparation & Nutrition

Key terms
Additives: Are added to ensure safety,
increase shelf life or improve the taste,
texture of appearance of food. They must be
shown clearly on food labels.
Allergen labelling: Allergens must be
clearly shown in bold , <mark>highlighted</mark> ,
underlined or in <i>italics</i> .
Back-of-pack labelling: Is legally required
and can help consumers make healthier
choices.
Claim: Any statement about the nutrient
content or health benefit of a food product.
Front-of-pack labelling: Is voluntary but
must provide certain information and can
use red, amber and green colour coding.
Labelling: The term given to the information
about the product which is displayed on the
packaging.
Nutrition information: Helps consumers
make healthier choices.

Source of vitamin C (at least 15% of the nutrient reference value for vitamin C per

1. Find four different packaged food items in your household or online and list the information provided on the packaging. Explain the purpose of each piece of information and identify if it is legally required or consumer information. Explain the importance of date marks and storage instructions, including the

- is it a healthy product or not? Explain your answer and make recommendations

Quand? – When?

tous les jours – every day

le matin – in the morning l'après-midi – in the afternoon le soir – in the evening pendant la pause – at break time quand j'ai le temps - when I have time quand je n'ai rien d'autre à faire - when I don't have anything else to do pendant mes heures libres - in my free time les weekend – at weekends pendant les vacances - during the holidays **auelauefois** – sometimes de temps en temps - from time to time

Noms - Nouns

un ordinateur – a computer un ordinateur portable – a laptop une console de jeu vidéo - a games console les sites web – websites un mot de passe – a password un lecteur MP3 - an MP3 player une application (une appli) – an app les jeux vidéo – videogames un appareil-photo – a camera un réseau social – a social network les réseaux sociaux -social networks mon portable - my mobile les téléchargements – downloads les inconnus - strangers le danger - danger le problème – the problem les jeunes- young people un tweeter - a Twitter user un compte - an account le clavier - the keyboard mon mur Facebook - my Facebook wall la confidentialité – privacy un virus informatique – a computer virus la cyber-intimidation - cyber-bullying le vol d'identité - identity theft

l'internet / la Toile / le web - the www

des pourriels – spam emails



Les Bechnolosse - Technolossy

<u>Les Verbes – Verbs</u>		À mon avis – In my opinion	
je l'utilise pour – I use it for (+infinitive)		je crois que – I believe that je pense que – I think that	Des adjectit
j'utilise – I use		à mon avis – in my opinion j'adore – I love j'aime – I like	
j'ai utilisé – I used	争三参	je n'aime pas - I don't like je déteste - I hate	ennuyeux – bo
je vais utiliser – I'm going to use	\mathcal{O}	je préfère – I prefer ce que j'aime (le plus) est – What I like (most) is	génial – great
pour – for / in order to		ce que je n'aime pas (du tout) est – What I don't like (at all) is	intéressant – in
je m'habitue à – I usually (+infinitive)		ma mère aime – my mum likes selon – according to	fantastique -
<i>télécharger</i> – to download		mon père pense que – my dad thinks that	barbant - dull
<i>blogger</i> - to blog		beaucoup de gens pensent que – Lots of people think that	cool – cool
faire partie d'un groupe - to take part	in a group	c'est_it is ce sont_they are	important - imp
prendre des photos – to take photos		cela peut être – it can be	bon marché –
jouer à des jeux vidéo – to play video	•	cela m'ennuie – it bores me cela m'intéresse – it interests me	cher - expensive
écouter de la musique – to listen to m	nusic	c'est une perte de temps / d'argent – it's a waste of time/money	moderne – mo
garder le contact – to keep in contact		il faut être prudent / se méfier- you have to be careful / beware	fascinant - fas
je dépense de l'argent sur - I spend i	money on	je ne peux pas vivre sans – I can't live without	relâchant – rel
lire les nouvelles – to read the news		I'avantage – the advantage I'inconvénient – the disadvantage	facile – easy
<i>m'aider avec les devoirs</i> – to help me homework	with my	en cas d'urgence – in case of emergency	difficile – diffici
chercher de l'information - to searc	h for information	je suis / je ne suis pas d'accord – I am / am not in agreement	dangereux – da
surfer sur internet – to surf the net		l'interdiction des portables au college est juste / n'est pas juste -	essentiel – ess
partager – to share		the mobile ban at school is fair / is not fair	rapide – guick
envoyer un courrier électronique	 to send an 	la règle est trop stricte. On nous traite comme des enfants et j'en ai	
email		marre. – the rule is too strict. They treat us like children and I'm fed up with it.	confus – confus
envoyer/recevoir un message – to message	send/receive a	si un portable sonne en classe ça perturbe les cours – if a phone rings	pratique – prac
<i>tweeter</i> – to tweet un tweet / retweet	- a tweet/retweet	in class it disturbs the lessons	utile – useful
<i>mettre à jour mon status</i> – to update		il faut que les élèves se concentrent sur leurs études - it's necessary for	addictif – addic
ajouter des photos – to upload photos		students to concentrate on their studies	compétitif – con
tchatter – to chat		ai utilisé mon portable pour tchatter avec mes copains et je me suis bien	en ligne – onlir
écrire un commentaire - to comment	amusé ca	r c'était rigolo. Aussi j'ai utilisé ma console pour jouer à des jeux vidéo	amusant - fun
regarder des vidéos – to watch videos		it un peu barbant et répétitif. Yesterday evening I used my mobile to chat online with my	
		had a good time because it was funny. Also I used my console to play computer games but it was a	privé – private
recevoir un courrier indésirable –	bit dull and re	epetitive.	illégal – ilegal
to receive a spam email	(accro - addicted
		de mon smartphone est fantastique car on peut télécharger des applis	e <mark>crois que mon co</mark>
		qui sont souvent gratuites. Mon appli preferee est celle qui m'aide a	evenu accro à son
· · · · · · · · · · · · · · · · · · ·		Cabulaire de Trançais . The functionality of my smartphone is fantastic because you can	ar il ne veut plus s
dow voca		nds which are often free. My favourite app is the one which helps me to practise my French	ous. C'est inquiéta
1002			at my friend has become

Selon mon père, les réseaux sociaux peuvent être utiles, mais il faut faire attention car il y a des gens qui veulent commettre le vol d'identité. According to my dad, social networks can be useful, but you have to watch out because there are people who want to commit identity theft. Ma mère dit que les portables et les réseaux sociaux font partie de la vie moderne, et je suis d'accord - my mum says that mobiles and social networks are part of modern life, and I agree.

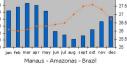


GCSE French KO

pain est portable ortir avec nt. I think addicted to his mobile because he no longer wants to go out with us. It's worrying.

What is a	in Ecosystem?			Biome's climate and plants									
An ecosy	stem is a system in which orga with their envi		other and	Biome	Location	Temperature	Rainfall		Flora		Fauna		
Ecosystem Components			Tropical rainforest				Very high (over 200mm/year)		Tall trees forming a canopy; wide variety of species.		Greatest range of different animal species. Most live in canopy layer		
Abiotic These are non-living, such as air, water, heat and rock. Biotic These are living, such as plants, insects, and animals.			κ.	Tropical Between latitudes 5°- 30° Warm all year (20-30°C) grasslands north & south of Equator. Warm all year (20-30°C)			·		Grasslands with widely spaced trees.		hoofed herbivores and ores dominate.		
	Flora Plant life occurrin	ng in a particular region o		Hot desert	Found along the tropics of Cancer and Capricorn.	Hot by day (over 30°C Cold by night	C) Very low (b 300mm/yea		Lack of plant adapted to d	s and few species; frought.		Many animals are small and nocturnal: except for the camel.	
SIL		Food Web and Chains	e.	Temperate forest	Between latitudes 40°- 60° north of Equator.	Warm summers + mil winters (5-20°C)	ld Variable rai 1500m /yea		Mainly decid of species.	luous trees; a varie		ls adapt to colder and er climates. Some migrate.	
Kito		Simple food chains are explaining the basic prin behind ecosystems. The	nciples ey show	Tundra	Far Latitudes of 65° north and south of Equator	Cold winter + cool summers (below 10°0	Low rainfall C) 500mm/ ye		•	grow close to the only in summer.		umber of species. Most Is found along coast.	
		only one species at a pa trophic level. Food web	bs however					CASE STU	DY: UK Ecosys	tem: Epping Fores	t, Essex		
Consists of a network of many food chains interconnected together.				Unit 1b					ite of Special S		SSI) for its biol	% of the area is designated ogical interest, with 66 % ation (SAC).	
Plants take in nutrients to build into new						Compone	Components & Interrelationsh			Management			
animals e soil when	atter. Nutrients are taken up wh at plants and then returned to th animals die and the body is brol lecomposers.	ne Raintall	Plant	The	e Livin	g Wo	orld	Spring	bluebell	ng plants (produce ls store nutrients t ers later.		 Epping has been managed for centuries. Currently now used 	
Litter	This is the surface layer of vegetation, which over time		omposition SOIL		Tropical Rainfo			Summer		ree leaves grow qu se photosynthesis		for recreation and conservation . - Visitors pick fruit and	
Biomass	breaks down to become hu	mus.	Tropical		Tropical rainforest covers about 6 % of the Earth's land surface yet they an home to over half of the world's plant and animals.			Autumn		ned leaves to cons sunlight hours deci		berries, helping to disperse seeds. - Trees cut down to	
	organisms per unit area.		of pare rock	Interdependence in the rainforest			Winter			encourage new growth			
Biomes					works through interdepend					Layers of the Ra	inforact		
A biome is a large geographical area of distinctive plant and animal groups , which are adapted to that particular environment. The climate and geography of a region determines what type of biome can exist in that region.			geography	animals depend on each other for survival. If one component changes, there can be serious knock-on effects for the entire ecosystem.			Emergent Layer		Emergent		with trees reaching 50 Kapok trees		
Conferous forest Deciduous forest Tropical rainforests				THE P	Distribution of Tropical Rainforests Tropical rainforests are centred along the			an		Canopy		and here as It receives 70% tand 80% of the life.	
			Equator between the Tropic of Cancer and Capricorn. Rainforests can be found in South America, central Africa, South-East Asia & N			e found in South th-East Asia & North	Canopy	Layer	Under Canopy	Consists of tre high.	es that reach 20 metres		
			Pacific Ocean	West Australia The Amazon is the world's largest rainforest and takes up the majority of northern South America, encompassing			Forest Floor		Shrub Layer		vith small trees that have ng in the shady conditions		
Tropical Rain Forest Temperate Forest Desert Tuncka		Contraction of the second seco	Tundra			ntries such as Brazil and							
Taiga (Boroal forest) Grassland Savanna Tropical Grassland Freetwater		\sim	Temperate	Rainforest nutrient cycle			Climate of Tropical Rainforests				350		

- Temperatures are consistently above 25°C.
- Due to the presence of clouds, temperatures rarely rise above 32°C.
- Most afternoons have heavy showers.
- At night with no clouds insulating, temperature drops.



The hot, damp conditions on the forest floor allow for the rapid

nutrients that are easily absorbed by plant roots. However, as these

they do not remain in the soil for long and stay close to the surface.

nutrients are in high demand from the many fast-growing plants,

decomposition of dead plant material. This provides plentiful

If vegetation is removed, the soils quickly become infertile.

grasslands

Tropical

The most productive biomes – which have the greatest

biomass- grow in climates that are hot and wet.

grasslands

Hot deserts.

Thar Desert – India/Pakistan or the Mojave in the SW of the USA **Tropical Rainforests: Case Study Malaysia** Malaysia is a LIC country in south-east Asia. 67% of Malaysia is a tropical rainforest with 18% of it not being interfered with. The Thar Desert is located on the border between India and Pakistan in Southern Asia whereas the Mojave is located in the However, Malaysia has the fastest rate of deforestation compared to anywhere in the world South West of the USA Adaptations to the rainforest Distribution of the world's hot deserts Major characteristics of hot deserts Rainforest indigenous people (tribes) Buttress roots Large external base ridges support the huge trees. Many tribes have developed sustainable ways of Most of the world's hot deserts are found Aridity - hot deserts are extremely dry, survival. The rainforest provides inhabitants with... in the subtropics between 20 degrees and with annual rainfall below 250 mm. Drip Tips Allows heavy rain to run off leaves easily. Food through hunting and gathering. 30 degrees north & south of the Equator. Heat - hot deserts rise over 40 degrees. Natural medicines from forest plants. The Tropics of Cancer and Capricorn run Landscapes – Some places have dunes, Lianas & Vines Climb trees to reach sunlight in the canopy. · Homes and boats from forest wood. but most are rocky with thorny bushes. through most of the worlds major deserts. **Issues related to biodiversity** What are the causes of deforestation? **Hot Deserts inhabitants Climate of Hot Deserts** T = 25.9 °C P = 18 mm80 40 Why are there high rates of biodiversity? Agriculture People often live in large Very little rainfall with less than 250 mm per Logging 0. open tents to keep cool. 30 60 vear Warm and wet climate encourages a · Most widely reported cause of · Large scale 'slash and burn' of Food is often cooked slowly It might only rain once every two to three years. wide range of vegetation to grow. destruction to biodiversity. land for ranches and palm oil. in the warm sandy soil. • Temperatures are hot in the day (45 °C) but are There is rapid recycling of nutrients to Timber is harvested to create Increases carbon emissions. Head scarves are worn by cold at night due to little cloud cover (5 °C). speed plant growth. commercial items such as River siltation and soil erosion men to provide protection In winter, deserts can sometimes receive Most of the rainforest is untouched. furniture and paper. increasing due to the large from the Sun. occasional frost and snow. J F M A M J J A S O N D Violent confrontation between areas of exposed land. Main issues with biodiversity decline indigenous tribes and logging Increase in palm oil is making Adaptations to the desert **Desert Interdependence** the soil infertile. companies. Small surface Keystone species (a species that is Cactus Large roots to absorb water soon after area minimise Different parts of the important to other species) are Mineral Extraction Tourism nes instead rainfall of leaves hot desert ecosystem extremely important in the rainforest Needles instead of leaves to reduce are closely linked ecosystem. Humans are threatening Precious metals/ores are found Mass tourism is resulting in the • surface area and therefore transpiration. together and depend on these vital components. in the rainforest. building of hotels in extremely Stems that each other, especially in Decline in species could cause tribes Areas mined can experience soil vulnerable areas. Camels Hump for storing fat (NOT water). can store wat a such a harsh and water contamination. Lead to negative relationship being unable to survive. Wide feet for walking on sand. environment. Plants & animals may become extinct. Indigenous people are between the government and Long eyelashes to protect from sand. Widespread root system Key plants used in medicine are extinct. becoming displaced from their indigenous tribes land due to roads being built to Tourism has exposed animals **Opportunities and challenges in the Hot desert** Impacts of deforestation transport products. to human diseases. **Opportunities** Challenges D Economic development **Energy Development Road Building** There are valuable minerals for industries and The extreme heat makes it difficult to work outside for The high rainfall creates ideal Roads are needed to bring + Mining, farming and logging creates construction. E.g. gypsum & phosphorus very long. employment and tax income for conditions for hydro-electric supplies and provide access to Energy resources such as coal and oil can be found in High evaporation rates from irrigation canals and government. power (HEP). new mining areas, settlements these deserts farmland. The Bakun Dam in Malavsia is and energy projects. + Products such as palm oil provide valuable Great opportunities for renewable energy such as solar Water supplies are limited, creating problems for the key for creating energy in this In Malaysia, logging companies income for countries increasing number of people moving into the area. power. - The loss of biodiversity will reduce tourism. developing country, however, use an extensive network of Thar and Mojave deserts has attracted tourists. Access through the desert is tricky as roads are difficult roads for heavy machinery and both people and environment to build and maintain, and tarmac can melt in the heat. Soil erosion have suffered. to transport wood. Strategies to reduce Desertification Sustainability for the Rainforest **Causes of Desertification** - Once the land is exposed by deforestation, the soil is more vulnerable to rain. Climate Change Desertification means the turning of All and Water management - growing Uncontrolled and unchecked exploitation can cause irreversible damage such - With no roots to bind soil together, soil can crops that don't need much water. as loss of biodiversity, soil erosion and climate change. semi-arid areas (or drylands) into Lower rainfall and rising temperatures easily be washed away. have meant less water for plants. Tree Planting - trees can act as deserts. windbreakers to protect the soil Possible strategies include: Climate Change Agro-forestry - Growing trees and crops at the same time. It prevents soil Fuel Wood Overgrazing from wind and soil erosion. erosion and the crops benefit from the nutrients. People rely on wood for fuel. This Too many animals mean plants are Soil Management - leaving areas of -When rainforests are cut down, the climate Selective logging - Trees are only felled when they reach a particular removal of trees causes the soil to be eaten faster than they can grow back. land to rest and recover lost becomes drier. height, or only certain trees are taken, not all. exposed. Causing soil erosion. nutrients -Trees are carbon 'sinks'. With greater Education - Ensuring local people understand the consequences of Technology – using less expensive, deforestation comes more greenhouse **Over-Cultivation Population Growth** sustainable materials for people to deforestation emissions in the atmosphere. If crops are grown in the same areas A growing population puts pressure on maintain, i.e. sand fences, terraces -When trees are burnt, they release more Afforestation - If trees are cut down, they are replaced. too often, nutrients in the soil will be the land leading to more deforestation, to stabilise soil and solar cookers carbon in the atmosphere. This will enhance Forest reserves - Areas protected from exploitation by laws used up causing soil erosion. overgrazing and over-cultivation. to reduce deforestation. the greenhouse effect. Ecotourism - tourism that promotes the environment & conservation

Year 10 Health and Social Care term 1

Health Care Services	Examples
Primary Care	GP's, dental care, optometry, community health
Secondary Care	referred to as 'hospital and community care', can either be planned (elective) care such as a cataract operation, or urgent and emergency care such as treatment for a fracture
Tertiary care	highly specialised treatment such as neurosurgery and transplants
Allied Health Professionals	Physiotherapy, occupational therapy, speech and language therapy and dieticians

Social Care	Examples			
Services		Barriers to ac	cessing care	
Services for children and young	Foster care, residential care and	The Barrier	Examples	
people	youth work	Physical Barriers	Issues getting into and around the facilities	
		Sensory Barriers	Hearing and Visual Difficulties	
Services for adults or children	Residential care, respite care and domiciliary care	Social, Cultural and Psychological barriers	Lack of awareness, differing cultural beliefs, social stigma and fear/loss of independence	
with specific		Language barriers	Differing first language, language impairments	
needs	Desidential	Geographical barriers	Distance of service provider and poor transports links	
Services for older adults	Residential care and	Intellectual barriers	Learning difficulties	
	domiciliary care	Resource barriers for service provider	Staff shortages, lack of local funding and local high demand	
Informal care	Relatives, friends and	Financial barriers	Charging for services, cost of transport and loss of income while accessing services	
	neighbours			-

Key word	definition				
Primary Care	The first point of contact in the healthcare system				
Secondary care	Services provided by health professionals, you usually need to be referred to access this care.				
Tertiary care	Services that need <u>highly</u> specialised treatment				
Allied health professionals	Practitioners with specialised knowledge in preventing, diagnosing and treating a range of conditions and illnesses				
Health care services	These services maintain or restore physical, mental, or emotional well-being				
Social care services	Nonmedical services that support the social needs of individuals, e.g. the elderly,				
Residential care	Care given to adults or children who stay in a residential setting rather than in their own home.				
Respite care	taking a break from caring, while the person you care for is looked after by someone else				
Domiciliary care	Services to support individuals in the comfort of their own home e.g. cooking a meal, helping someone get dressed or cleaning				
Barrier to care	Something that limits, or prevents, someone accessing the care they need.				

Summary 1954-60

By the early 1950s, slavery had been abolished and black Americans were equal to white Americans by law. However, black Americans were not actually treated as equal, as all over the USA black Americans lived in the worst areas and had access to the worst facilities. This was at its worst in the South, as most Southern states had a system of segregation which kept black and white communities separate. For example, local laws meant black Americans could not use the same toilets or restaurants as white people. Black Americans had the right to vote, but were stopped by a system that deliberately discriminated against them, by threats and by violence. Some black Americans in the South tried to improve their lives by joining the civil rights movement to campaign for equality. During the early stages of the civil rights movement, progress was made in education and the Montgomery Bus Boycott, with the culmination of the Civil Rights Act in 1957. However, with this progress being made, Southern opposition to civil rights grew as attempts were made to hinder the success of the movement.

Progress in Education

The Montgomery Bus Boycott

One of the biggest segregation issues Rosa Parks was arrested after refusin the South was education. The Brown V. Topeka case was significant in ruling against segregation in schools. However, with no timescale placed on desegregation, this was still a problem in Southern schools as seen in the case of the Little Rock Nine. As threats of violence increased, civil rights groups became aware of the power of the media to help their cause. gate public transport.

ing to give up her bus seat for a white man. This sparked the bus boycott which lasted 381 and almost all black people in Montgomery took part. As head of the MIA, Martin Luther King became the voice of the campaign. He understood the importance of publicity, which was crucial for success. The boycott ended in 1956 with the Supreme Court decision to segre-

Enquiry Question: What kind of change could African Americans see in the period 1954-1960?



Key Figures		
Emmet Till	A 14-year-old from Chicago who was murdered in 1955 by two white men whilst visiting relatives in Mississippi. His mother insisted on an open-casket at his funeral which gained much publicity for	
Linda Brown	In 1951, the Browns and 12 other families went to court to fight for their black children to be able to attend the nearest school which was 'white' in the Brown V. Topeka case.	
Rosa Parks	In 1955, Parks was arrested after refusing to give up her seat on a bus for a white person. This sparked the Montgomery Bus Boycott.	
Martin Luther King	Civil Rights leader who came to prominence during the Montgom-	
<u>Challenge</u> Why did Emmett Till's mother decide to have an open viewing of his body at the funeral home?		

Why did Rosa Parks become the figurehead of the Montgomery Bus Boycott?

What impact did the Little Rock 9 have on attitudes towards integration in the South?

	1	
1954 Brown v.		1955 Murder of
Topeka case		Emmett Till, a
ruled AGAINST		14 year old
segregated		African Ameri-
education		can, by the KKK

1955 Start of	1956
Montgomery	Bus B
Bus Boycott—	Segre
December (Rosa	public
Parks)	ruled

Montgomery loycott ends. 1956 The Southern Mangation on ifesto signed by Southern c transport Politicians to encourage unlawful segregation

1957 President Eisenhower used National Guard to protect 9 black students at Little Rock High School

1957 Civil Rights Act: all people had right to vote and Federal Government to look for racial discrimination

1960 Civil Rights Act: aimed to protect voting rights of black citizens

TIMELINE OF THE DEVELOPMENT OF CIVIL RIGHTS

Rey cond	epts		Key Vocabulary	
Federal	The central US government responsible for laws that gov-	M ((,))	Segregation	Separating groups due to their race e.g. separate housing, educated
	ern the whole country.			tion, health care, or public transport for black and white people
Chata	, 	$\beta \sim \beta$	Discrimination	Treating people unfairly because of their race or religion.
State	All US states have their own governments and laws.	TTT T		
Supreme	The top court for the whole of the USA. It has the power		Jim Crow Laws	'Black code' laws enforcing segregation, named after 'Jim Crow'
Court	to overrule state laws if necessary.	2		lazy, stupid black character played by a white comedian).
Literacy	Baffling tests designed to prevent black Americans from		Integration	Black and white people sharing facilities e.g. the same schools.
Test	voting.			
Senators	US politicians, members of the Senate.		NAACP	(National Association for the Advancement of Coloured People
		TITT		pressure group founded in 1909 that focused on eliminating rate
Lynching	The murder of African Americans.			discrimination and on fighting for civil rights in the courts.
1			CORE	(Congress of Racial Equality). Established in 1942, this group us
	THE YOUR AND	ŇŇŇ		non-violent direct action protests e.g. the first group to use the
	END YOUR FINISHING HIM HUMAN DIGNITY			tactic of sit-ins.
FIGHT L	IVE JOB		Non-violent	Forms of protest that don't include violence e.g. boycotts, sit-i
GALLET	RSON AT FEPS	Y	direct action	
UPPOPT RA	CISM STUDERT MAMENDMENT	⋧→ঌ	Plessy V.	'Separate but equal' - A law of 1896 said segregation was allow
SOUTH	YOUTH	\` ≁ \\\`	Ferguson	if conditions for blacks and whites were equal
Contention Herito			Desegregation	Removal of the policy of segregation
time V				
	1		WPC	(Women's Political Council) set up in Montgomery in 1946 to f
		4		discrimination.
P Carel				
			MIA	(Montgomery Improvement Association) led by Martin Luther
. T			MIA	
			MIA	
			MIA Boycott	King, set up to improve the lives of black people in Montgome and to continue the bus boycott.
				King, set up to improve the lives of black people in Montgome and to continue the bus boycott.
团				King, set up to improve the lives of black people in Montgome and to continue the bus boycott. Refusal to use a service if you believe it is doing something wr (e.g. discriminating against black people on buses).
U			Boycott	King, set up to improve the lives of black people in Montgome and to continue the bus boycott. Refusal to use a service if you believe it is doing something wro (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights.
Other Re	sources		Boycott	King, set up to improve the lives of black people in Montgome and to continue the bus boycott. Refusal to use a service if you believe it is doing something wr (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights.
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https://w			Boycott Dixiecrats Ku Klux Klan	 King, set up to improve the lives of black people in Montgomer and to continue the bus boycott. Refusal to use a service if you believe it is doing something wro (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights. (Ku Klux Klan) A secret society of white people in the South wh believed in white supremacy and used violence against black p ple (and other minority groups).
<u>https://w</u> zcpcwmn,	ww.bbc.co.uk/bitesize/guides/		Boycott Dixiecrats Ku Klux Klan (KKK) WCC	 King, set up to improve the lives of black people in Montgomer and to continue the bus boycott. Refusal to use a service if you believe it is doing something wro (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights. (Ku Klux Klan) A secret society of white people in the South wh believed in white supremacy and used violence against black p ple (and other minority groups). (White Citizens' Council) petitioned and campaigned against do segregation .
https://w zcpcwmn, https://w	ww.bbc.co.uk/bitesize/guides/ /revision/1 ww.youtube.com/watch?	\frown	Boycott Dixiecrats Ku Klux Klan (KKK)	 King, set up to improve the lives of black people in Montgomer and to continue the bus boycott. Refusal to use a service if you believe it is doing something wrd (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights. (Ku Klux Klan) A secret society of white people in the South wh believed in white supremacy and used violence against black p ple (and other minority groups). (White Citizens' Council) petitioned and campaigned against do segregation .
<u>https://w</u> zcpcwmn,	ww.bbc.co.uk/bitesize/guides/ /revision/1 ww.youtube.com/watch?		Boycott Dixiecrats Ku Klux Klan (KKK) WCC	 King, set up to improve the lives of black people in Montgomerand to continue the bus boycott. Refusal to use a service if you believe it is doing something wrote. (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights. (Ku Klux Klan) A secret society of white people in the South who believed in white supremacy and used violence against black people (and other minority groups). (White Citizens' Council) petitioned and campaigned against desegregation . A document written by Congress in 1956 opposing racial integration of public places.
https://w zcpcwmn, https://w v=S64zRn	ww.bbc.co.uk/bitesize/guides/ /revision/1 ww.youtube.com/watch?	\frown	Boycott Dixiecrats Ku Klux Klan (KKK) WCC Southern	 Refusal to use a service if you believe it is doing something wrote. (e.g. discriminating against black people on buses). Democratic Party senators from Southern States who opposed black voting rights. (Ku Klux Klan) A secret society of white people in the South wh believed in white supremacy and used violence against black piele (and other minority groups). (White Citizens' Council) petitioned and campaigned against desegregation . A document written by Congress in 1956 opposing racial integret.

GCSE History

Creative iMedia

R094: Visual identity and digital graphics

A visual identity gives customers a feeling of the brand, product or service. It helps to **visually communicate** the values and personality of the brand with audiences or customers. The visual identity helps **establish a brand**, make it stand out and be **recognised** and **develop brand loyalty**.

When creating a visual identity you need to consider the following components: **logo**, **brand name** and **slogan or strap line**. See illustration below.

A visual identity should reflect **the type of business or organisation it represents**. It should help to **communicate the values** and core principles of the brand.

Much like colour, different typefaces (fonts) evoke different emotions. Sans serif fonts can project modernity and simplicity, while serif fonts convey stability and tradition. Script fonts offer elegance, while display fonts portray a more playful or hand-made feeling. The font you choose for a logo can add or detract from the credibility of your brand. (See the differences between the examples shown below.)

The Kids Zone logo (below) creates a visual identity that communicates feelings of fun, activity and creativity. The use of bright colours, playful font and decorative splat would be appealing to young children.

The Royal Swan logo (below) creates a visual identity that shows an elegance and luxury, as suggested by the gold. The contrasting dark blue colour is chosen to provide reassurance and trust in the brand. It is simple and elegant but also easy to remember. The traditional font communicates a traditional atmosphere.

The elements of visual identity include typography, graphics, colour palette and layout/complexity.





Serif.

Sans Serif.

Decorative, good as a desig focal point.

|--|

Word

word	Definition		
Typography	The style of text used.		
Graphics	This includes photos, images, illustrations, shapes and symbols .		
Colour palette	The particular group of colours or colour scheme that is to be used across all products.		
Layout and complexity	Layouts may be simple or complex. You will need to consider the audience and purpose of the product to decide which is appropriate.		
More info can be found here:			

Definition

OCR Creative iMedia Levels 1/2 J834 (R093, R094), PG Online Limited, 2022. Pages 67-69

GCSE Media – Media Language

KEY TERMINOLOGY:

Denotation: actual/literal meaning e.g. a candle.

Connotation: deeper meanings e.g. a candle might connote hope or light, or have religious connotations.

Codes and conventions: the elements of media

language that usually occur in particular forms

(e.g. magazines or adverts) or genres (e.g. sitcom).

Narrative: how stories are structured and communicated.

Genre: the type or category of product (e.g. crime, sitcom).

Intertextuality: where a media product refers to another text to communicate meaning to the audience.

KEY CONTENT:

The various forms of media language used to create and communicate meanings in media products, for example: Visual codes: elements that relate to the look of a product,

e.g. mise-en-scène, colour palette, layout and design.

Technical codes: e.g. camera shots/ angles, editing.

Audio codes: e.g. non-diegetic music, effects, dialogue.

Language codes: written or spoken words.

R Apply it... analyse how these elements of media language are used in the set products e.g. the red, white and black colour palette on the set GQ cover connotes masculine strength and power to appeal to the target audience.

KEY CONTENT:

How choice (selection, combination and exclusion) of elements of media language influences meaning in media products, for example:

- How the selection and combination of camera shots **creates narrative** in the set television episodes or music videos.
- How the written text anchors meanings in the images on the set newspaper front pages to portray aspects of reality
- What has been excluded from the set print advertisements and how the **point of view** might be different if alternative elements had been included.
- How the combination of design elements, images and cover lines **conveys messages and values** on the set magazine front covers.

Apply it... analyse how the choices producers make about media language communicates meanings in the set products.

E.g. *the combination of images and headline on the front page of* The Sun (for assessment from 2021) conveys patriotic values and communicates a point of view that MPs should vote for the Brexit Bill. Give examples to support this point.

WHERE WILL I NEED TO STUDY/ APPLY MEDIA LANGUAGE?

COMPONENT 1: Section A

Question 1 will require analysis of one of the set products detailed on Page 11 of the Specification: magazine front covers , newspaper front pages, film posters and print adverts.

COMPONENT 2: Section A

Question 1 will require analysis of media language or representation in an extract from the set television crime drama or sitcom.

COMPONENT 2: Section B

Question 3 will require analysis of media language or representation in the set music products detailed on page 19 of the Specification: music videos and online media.

COMPONENT 3

Learners will be assessed on their ability to use media language to communicate meanings in the production work (Non-Exam Assessment).

KEY CONTENT:

Codes and conventions of media language: how they develop and become established as 'styles' or genres, for example:

How the conventions of a genre (e.g. crime drama or sitcom) have developed and solidified.

How they may vary over time, for example:

How the conventions of a form (e.g. print advertising) have changed, due to new technologies and changing social/ cultural contexts.

R Apply it... analyse how the contemporary set print advert, film poster, television programme and music videos show developments from the older/ historical set products you have studied.

E.g. The Spectre poster uses digital technology to construct an enigmatic layered main image in contrast to the montage of drawn images depicting narrative scenes in the historical poster.

KEY CONTENT:

Intertextuality, including how inter-relationships between media products can influence meaning:

Several set products use intertextuality, for example the set music videos by Katy Perry and Taylor Swift are constructed as 'mini-films' and show the influence of other texts.

🖾 Apply it... identify references to other texts in the set products you have studied and think about how these communicate meanings.

E.g. Roar includes intertextual references to the well known 1969 film, The Jungle Book, in the use of visual codes and elements of narrative. These familiar references can communicate meanings (e.g. about a human 'taming' the jungle) and create humour.

THEORETICAL PERSPECTIVES AND CONTEXTS:

GENRE, including: **Principles of repetition and variation**: products usually include typical genre conventions that audiences recognise, and also different elements to engage the audience/ keep the genre 'fresh'.

The dynamic nature of genre: genres are not 'set in stone', they change and develop over time.

Hybridity (combining elements of two or more genres in a product) and **intertextuality** provide further variation and offer something 'new' to engage audiences.

NARRATIVE theories:

narrative.

Apply it... consider how Propp's character types could apply to the set products you have studied.

Other theories, such as Todorov's theory (equilibrium, disruption, resolution), Levi-Strauss' Binary Oppositions or Barthes' Action and Enigma codes may also be studied.

CONTEXTS: Historical, Social, Cultural, Political:

How the media language in the set products reflects the contexts of production in terms of:

PRACTICAL TASKS

Art skills not important!

- and the main image.



Apply it... consider how these ideas apply to the set products you have studied for Component 2.

Propp's theory must be studied: the key character types (hero, villain, 'princess', father, donor, helper, dispatcher, false hero) and their role in the stages of the

• themes, values, messages, viewpoints

genres, styles, technologies, media producers.

APPLYING MEDIA LANGUAGE:

1. Choose a different song by Katy Perry or Taylor Swift: storyboard 20 shots for a new music video. Include some performance and narrative to reflect conventions. Think about the range of camera shots and the mise-en-scène to communicate the meanings in the lyrics to your audience.

2. **Design a front cover for a new magazine** in a genre of your choice. Sketch the layout and design, paying close attention to the colour palette, the font style

Write 5 cover lines, aiming to communicate messages and use language codes.

Instruments/Line Up

Typical Band Line Up Vocals/Backing Vocals Drum kit Electric Guitar Bass Guitar Keyboard/Piano Synthesiser Bhangra – Dhol, Drum Machine, Synthesiser, Tumbi, Sitar

<u>Texture</u>

The typical of rock and pop music texture is melody and accompaniment.

Rhythm/Beat lengths

- Emphasising beats 1 and 3
- Syncopation off beat rhythms
- Minim 2 Crotchet 1
- Quaver 1/2 Semiquaver 1/4

<u>Melody</u>

The melody lines tend to be:

- Conjunct moving in step
- Repetitive
- Syllabic each syllable has one note
- Melimsa dragging lots of notes over one syllable

<u>Popular Music</u>

- Popular music covers music from 1960s present day in a popular style. You will look at Rock, Pop, Bhangra and Fusions.
- You will listen to a range of music and analyse the musical elements, instruments and technological effects used.



Popular Music

AoS 4

Technological Effects

- Reverb lots of repetitions of one sound after each other
- Echo a single repeated sound
- Panning the distribution of sound in the stereo field
- Vocoder making the voice sound robotic
- Autotune making the voice sound in tune

<u>Harmony</u>

- Based on simple and repeating chord patterns.
- Mainly using chords I, IV, V, VII
- Use off riffs (repeating bass line patterns)

Structure

The songs tend to be in verse-chorus structure

- Verse repeated section but with new lyrics
- Chorus the main section of the song that is repeated
- Intro Introduction/starting section
- Outro Ending section
- Bridge A contrasting section
- Middle 8 8 bar section in the middle of a song
- Loops repeating patterns
- Sampling taking a sample from another song and using it in another recording

Tempo and Time Signature

The tempo could be:

- Adagio (slow)
- Andante/Moderato (medium)
- Allegro (Fast

The time signature (beats in a bar) is generally in 4/4 (four beats in a bar)

Dynamics

Most songs are mezzo-forte (medium loud) in the verse whilst the choruses are forte (loud).

<u>Tonality</u>

Major – Uplifting/happy/bright tone Minor – Sad/sombre tone

MUSIC

Careers Education

Key word	Definition	Key Content:
Qualification	Something that makes a person fit for an activity or job. This normally involves the completed of an award or exam that is araded.	 Establish and identify your own strengths and weaknesses, interests, skills, and qualities
Skill	The power or ability to perform a task well, especially because of training/practice	Develop a greater awareness of the future career options available to you
Quality	A feature that makes a person or thing what it is	 Become familiar with different types of work, and pathways to get through life, education and work
Career	the work a person chooses to do through life	 Think about the post-sixteen options available to you, and learn about different ways to get advice and support with managing this
dof	a regular position for which a person is paid to do particular duties	 decision making process Discuss the benefits and importance of ambition and aspiration in
Employment	work done for pay; job	 If you need further advice about the options process and careers
Sixth Form	Two final years at a school to study A-Level courses (and some BTEC courses).	email Mrs Lynch our careers support worker on
College	A place where you can focus on mostly vocational courses (training you for a specific job)	 <u>alynch@jogschool.org</u> You can make an appointment for a careers interview by emailing Mrs Lynch on the address above
Respect	To express honour or esteem towards, treating others how you wish to be treated	 Take a look at the following websites for further careers advice: <u>www.eclips-online.co.uk</u> (the password is ba14 9eh)
Psychometric testing	A test that many employers use to work out whether your personality fits with what they are looking for – usually part of a job interview.	 This website is also helpful: <u>www.careerpilot.org.uk</u> If you are interested in an apprenticeship then have a look at the following website: <u>www.gov.uk/apply-apprenticeship</u>
Armed services	One of your post-sixteen options – the army, navy or air force.	 Register yourself for the apprenticeship site above to keep up to date with opportunities
Curriculum Vitae	A written overview of your skills, qualifications and experience that employers will ask to see.	 If you are interested in the armed services then Mrs Lynch can put you in touch with the army/navy/air force careers team. Start looking at sixth forms around us if you are interested in A-level
https://icould.com http://www.wiltsh	ire.ac.uk/	 or specific BTEC courses. Find out when open evenings are. Look at the Wiltshire, Bath and Swindon college websites to find out when their open days are the sort of courses they have. Remember that Trowbridge is not the epicentre of everything – you
https://www.bbc.	.com/education/topics/zsnfr82/resources/1	can do a courses at a different college and sixth form.

Careers education: work experience (WEX)

All of year ten will take part in WEX in the summer term. It gives young people a chance to build their self-confidence and start to plan their own career path. It gives young people valuable skills, qualities and experience that can be referred to on a CV or at an interview. It also gives young people the opportunity to find out about working life and specific careers or jobs that they might be interested in.

Your WEX placement is probably your first real step into the world of work, So it's understandable that you might feel a little nervous thinking and preparing for this. The key to combating those nerves is start preparing for it now.

It is important to start considering what you would like to do for your WEX over the next few weeks. Start talking to people that you know (teachers, family, friends, neighbours, etc.) to start to gain some ideas about possible placements. You might know someone that could offer you some WEX. You could also start to consider approaching employers and asking them whether they take WEX placements in the summer term.

A key part of finding a work experience placement is contacting employers via an email or writing a letter. You could also consider phoning employers as well. In PSHE lessons we will help you to write these, but the ground work must be done by you. If you are struggling with this you could make an appointment to see Mrs Lynch, our careers adviser, by emailing her at <u>alynch@jogschool.org</u>

Useful websites:

https://www.careerpilot.org.uk/information/a-job-or-career/work-experience-what-s-in-it-for-me https://targetcareers.co.uk/careers-advice/skills-and-experience/388-work-experience-for-schoolstudents-what-you-need-and-how-to-get-it

https://www.myworldofwork.co.uk/work-experience-0

Remember to always refer to your Start profile that you registered for last year https://www.startprofile.com/



Work experience letter template

[Date]

[Employer's name]

[Full address]

[Postcode]

Dear Sir/Madam [or name],

I am a [year group] student from [school name], studying [list of subjects].

I'd like to enquire about a potential work experience placement at [company name], which I will be available to carry out for [amount of time] from [start date] to [end date].

I'm keen on gaining some practical work experience in [chosen field of work], because [reasoning for pursuing a placement with this specific company and field].

I'm a [relevant skills and attributes], which can be shown in my [real-life examples that demonstrate your skills].

In my spare time, I like to [list relevant hobbies and interests], and I've also had some experience in/am a member of [list any groups/clubs/other work experience].

As an enthusiastic student with a keen interest in what your organisation does, as well as a passion to progress within this industry, I would be very grateful to be considered for an opportunity at [company name].

I look forward to hearing from you soon.

Yours [sincerely/faithfully]

[Your name]

When writing a letter to ask about a WEX placement, it is important for it to look professional. Consider using this template for a letter opposite, which could also be adapted to send in an email. Remember to:

- Write a letter/email following the professional format opposite.
- Once you have typed a letter/email it is important to read through it and check for any SPAG errors.
- Make a good impression. You never get a second chance to make a good impression.
- Include the dates and timings of the work experience.
- Explain why you would like a placement at their company relate this to your future careers ideas.
- Never include any hobbies that might be considered weird.
- Show your letter to someone (your PSHE teacher maybe) before sending it to an employer. You can then use this letter again to send to other employers – make sure you change the company name!
- Include the right name and address of the person you are sending it to.
- Sell yourself! Remember there will be other young people in the same position as you, so an employer may be receiving quite a few letters/emails.
- .

[Your name]

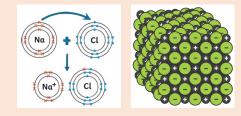
[Address]

[Postcode]

Combined - Chemistry

lonic bonding:

lonic bonding occurs between a metal and a nonmetal. Metals lose electrons to become positively charged. Opposite charges are attracted by electrostatic forces – an ionic bond.



lonic compounds form structures called giant lattices. There are strong electrostatic forces of attraction that act in all directions and act between the oppositely charged ions that make up the giant ionic lattice.

Properties of ionic compounds:

•High melting point – lots of energy needed to overcome the electrostatic forces of attraction •High boiling point

•Cannot conduct electricity in a solid as the ions are not free to move

•lonic compounds, when molten on in solution, can conduct electricity as the ions are free to move and carry the electrical current.

Metallic bonding:

Metallic bonding occurs between metals only. Positive metal ions are surrounded by a sea of delocalised electrons. The ions are tightly packed and arranged in rows. There are strong electrostatic forces of attraction between the

positive metal ions and negatively charged electrons.

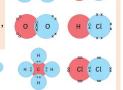


Covalent bonding:

Covalent bonding is the sharing of a pair of electrons between atoms to gain a full outer shell. This occurs between non-metals only.

Dot and cross diagrams are useful to show the bonding in simple molecules.

You should know how to do the dot and cross diagrams for chlorine, oxygen, nitrogen, hydrogen chloride and methane



Properties of covalent molecules:

Simple covalent structures have low melting and boiling points because of the weak intermolecular forces that hold the molecules together. They do not conduct electricity as they do not have any free delocalised electrons.

Alloys:

Pure metals are too soft for many uses and are often mixed with other metals to make alloys. The mixture of the metals introduces different sized metal atoms. This distorts the layers and prevents them from sliding over one another. This makes it harder for alloys to be bent and shaped like pure metals.

Diamond:

• Each carbon atom is bonded to four other carbon atoms, making diamond very strong.

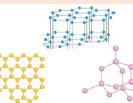
Diamond has a high melting and boiling point.
Large amounts of energy are needed to break the strong covalent bonds between each carbon atom.
Diamond does not conduct electricity because it has no free electrons

C2 – Bonding, Structure and Properties of Matter

Word	Definition			
Bond	A chemical bond is a lasting attraction between atoms, ions or molecules that enables the formation of chemical compounds.			
Metal	consist of giant structures of atoms arranged in a regular pattern. The electrons from the outer shells of the metal atoms are delocalised , and are free to move through the whole structure.			
Alloy	a mixture of two or more elements , where at least one element is a metal			
Delocalised electrons	The electrons from the outer shells of the metal atoms are delocalised , and are free to move through the whole structure			

Graphite

Made up of layers of carbon arranged in hexagons. Each carbon is bonded to three other carbons and has one free delocalised electron that is able to move between the layers. This allows it to conduct electricity. The layers are held together by weak intermolecular forces. The layers can slide over each other easily as there ar covalent bonds between the layer





Combined science HT – chemistry – bonding

Combined - Physics

Circuit symbols closed switch -0-0cell fuse A resistor ammeter LDR $\overline{\mathbf{v}}$ voltmeter LED battery variable resistor \otimes bulb thermistor diode open switch -0

Equations and Maths

Equations

Charge: Q = ItPotential difference: V = IREnergy transferred: E = PtEnergy transferred: E = QVPower: P = VIPower: P = I2R



Combined

physics -

electricity

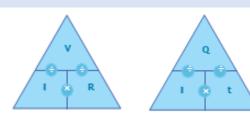
science HT –

Math's

1kW = 1000W 0.5kW = 500W

<u>Charge</u>

Electric current is the flow of electric charge. It only flows when the circuit is complete. The charge is the current flowing past a point in a given time. Charge is measured in coulombs (C).



Required Practical's

Investigating Resistance in a Wire

- **Independent** variable: length of the wire. **Dependent** variable: resistance.
- **Control** variables: type of metal, diameter of the wire.

Conclusion: As the length of the wire increases, the resistance of the wire also increases.

Investigating Series and Parallel Circuits with Resistors Independent variable: circuit type (series, parallel).

Dependent variable: resistance.

Control variables: number of resistors, type of power source.

Conclusion: Adding resistors in series increases the total resistance of the circuit. In a parallel circuit, the more resistors you add, the smaller the resistance.

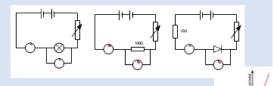
Investigating I-V Relationships in Circuits

(Using a filament bulb, ohmic conductor, diode.) Independent variable: potential difference/volts (V).

Dependent variable: current (A).

Control variable: number of components (e.g. 1 filament bulb, 1 resistor), type of power source.

Set up the circuits as shown below and measure the current and the potential difference.



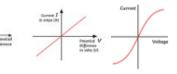
Word	Definition			
Current	The flow of electrical charge			
Potential Difference	The push of electrical charge			
Resistance	Slows down the flow of electrical charge			
Power	Time rate of doing work or delivering energy, expressible as the amount of work done W, or energy transferred, divided by the time interval			
Energy transferred	Amount of energy moved from one place to another.			
Efficiency	The amount of energy transfer into useful work.			

Graphs of I-V Characteristics for Components in a Circuit

1. Ohmic conductor: the current is directly proportional to the potential difference - it is a straight line (at a constant temperature).

2. Filament lamp: as the current increases, so does the temperature. This makes it harder for the current to flow. The graph becomes less steep.

3. Diode: current only flows in one direction. The resistance is very high in the other direction which means no current can flow.





P2 - Electricity

Combined - Biology

Adaptations		Competition:	Word	Definition	
 Structural adaptations: features of the organisms' body, e.g. colour for camouflage Behavioural adaptations: how the organism behaves e.g. migration to a warmer climate during colder seasons 	also w reprod Mutua	es will compete with one another and vithin their own species to survive and duce. alism occurs when both species benefit a relationship.	Adaptation	Adaptations are specific features of an organism which enable them to survive in the conditions of their habitat.	
Functional adaptations: the way the physiological processes work in the organism e.g. lower metabolism	Parasi	sitism occurs when a parasite only its from living on the host.	Competition	the rivalry between or among living things for territory, resources, goods, mates, etc.	
during hibernation to preserve energy A plant or animal will not physically change to adapt in its lifetime. Instead, there is a natural variation within	water	als compete for resources such as food, and space/shelter. They may also ete within their own species for mates.	Food chain	a list of organisms in a habitat that shows their feeding relationship	
the species and only the organisms whose features are more advantageous in the environment survive. The survivors then go on to reproduce and pass on their	Plants compete for resources including light, water, space and minerals.		Nutrient cycle	a system where energy and matter are transferred between living organisms and non-living	
features to some of their offspring. The offspring inherit these advantageous features and are better equipped to survive. Charles Darwin described this as 'survival		Ways to maintain e	parts of the environment		
of the fittest'. <u>Required practical: quadrats</u>		 Breeding programmes Conservation programmes to prohabitats 	otect and preserve specialised ecosystems and		
Quadrats can be used to measure the frequency of an organism in a given area e.g. the school field. You can count the		 Reintroduction of hedgerows and field margins on agricultural land Sustainable forestry programmes help to manage woodlands and reduce the 			

Quadrats can be used to measure the frequency of an organism in a given area e.g. the school field. You can count the individual organism or estimate the percentage cover. Quadrats should always be placed randomly.

deforestation to a sustainable rate Encouraging recycling and reusing products and packaging to reduce the household waste.

Deforestation and land use:

٠

Humans use land for buildings, quarrying, mining, agriculture and landfill. As the human population increases and we take more land, there is less space for other organisms to live.

Deforestation (to use wood as a fuel/material or to clear space for other uses) destroys habitats where other organisms live.

Peat bogs are produced when decomposition occurs over a very long time. Peat stores a lot of carbon and can be extracted for use by gardeners or as an energy source. Burning peat releases a lot of carbon dioxide into the atmosphere which contributes to the greenhouse effect.

Trees absorb carbon dioxide for photosynthesis, so as they are cut down and removed, less CO_2 is taken from the atmosphere. Furthermore, when they are burned, they release the CO_2 back into the atmosphere.



Combined science HT – biology – ecology

B7 – Ecology

GCSE Spanish – Travel and Tourism

Verbs key: <mark>past</mark>, present, <mark>future</mark>

Make sure you have also learnt the KS3 KO on this topic!

Los problemas en el hotel - problems in the hotel

había insectos/cucarachas en la cama - there were insects / cockroaches in the bed el aire acondicionado estaba roto - the air conditioning was broken

la luz no funcionaba - the light didn't work

el aseo / el baño / la ducha estaba sucio/a - the toilet/bath/shower was dirty

no había - there wasn't/weren't

el hotel estaba completo - the hotel was full

estaba cerca de una calle de mucho tráfico, por eso no dormí mucho – it was close to a street with a lot of traffic, therefore I didn't sleep much

fue un desastre total - it was a total disaster

por la noche había mucho ruido - at night there was a lot of noise

decidimos cambiar de hotel - we decided to change hotels



jEl subjuntivo! - The subjunctive!

Si tuviera la oportunidad, iría a - If I had the opportunity, I would go to Si tuviera mucho dinero, pasaría mis vacaciones en – If I had lots of money I would spend my holidays in

Si pudiera, visitaría – If I could, I would visit

Si ganara la lotería, viajaría alrededor del mundo – If I won the lottery, I would travel around the world

Cuando tenga veinte años – when I'm twenty years old Cuando sea mayor – when I'm older

Other higher level constructions

 acabar de + infinitive – to have just done something eg
 acabo de volver de mis

 vacaciones en Italia
 – I have just returned from my holiday in Italy

 antes de + infinitive – before doing something – eg
 antes de salir – before going out

 después de + infinitive – after doing something – eg
 después de comer – after eating

 ¡Qué rico! – How delicious
 ¡Qué desastre! – What a disaster
 ¡Qué suerte! – How

 lucky
 ¡Qué ilusión! – How exciting
 al llegar – on arriving

Conectivos – connectivesa causa de - because ofgracias a – thanks todebido a – due toaunque – althoughya que – because / sincesin embargo – howeverno obstante – howeverpor eso – thereforepor lo tanto – thereforesegún – according tosiempre – alwaysa menudo – oftendurante el día – during the daypor la noche – at nighten cambio – on the other handon the other handon the other hand

Comparatives – más ADJECTIVE que – more ADJ than; menos ADJECTIVE que – less ADJ than; tan ADJECTIVE como – as ADJ as. eg España es más fascinante que Francia – Spain is more fascinating than France. Grecia era menos caro que Suiza – Greece was less expensive than Switzerland; la Torre Eiffel va a ser tan divertido como la Torre de Pisa – the Eiffel Tower is going to be as fun as the Leaning Tower of Pisa.

Lo que más/menos me gustó /me gusta / me va a gustar era / es / va a ser What I liked / like / am going to like the most/least was / is / is going to be Lo mejor/peor era / es / va a ser - The best/worst thing was / is / is going to be Lo único malo era / es / va a ser - The only bad thing was / is / is going to be

Me interesó / me interesa / me va a interesar muy poco la ciudad I wasn't / am not / am not going to be very interested in the city

Me impresionó / me impresiona / me va a impresionar la magnífica arquitectura - I was / am / am going to be impressed by the magnificent architecture La historia y la cultura son las razones principales para volver a - The history and culture are the main reasons to go back to

Vale la pena visitar - It's worth visiting

Había un guía que explicaba todo - There was a guide who explained everything Esta experiencia, desde un punto de vista cultural, fue / es / va a ser

fascinante - This experience, from a cultural point of view, was / is / is going to be fascinating

había / hay / va a haber – there was / there is / there's going to be tenía / tiene / va a tener – it had / it has / it's going to have unas vistas preciosas de – lovely views of unas instalaciones deportivas – sports facilities

la vida nocturna para los jóvenes – nightlife for young people



los monumentos más emblemáticos / las ruinas de / la playa de – the most emblematic monuments / the ruins of / the beach of

una piscina impresionante – an impressive pool

mucho ruido – lots of noise mucha gente – lots of people

comida de todo el mundo – food from around the world

todo lo necesario para unas vacaciones inolvidables – everything necessary for an unforgettable holiday

nunca había / he visitado España - I had / have never visited Spain nunca había / he ido al extranjero - I had / have never been abroad fui / voy / voy a ir de excursión – I went / go / am going to go on a daytrip



conocí / conozco / voy a conocer a mucha gente nueva – I met / meet / am going to meet lots of new people

esquié / esquío / voy a esquiar – I skied / I ski / I am going to ski

disfruté / disfruto / voy a disfrutar de unas vistas esplendidas – I enjoyed / enjoy / am going to enjoy some splendid views

di / **doy** / **voy a dar** un paseo — I went / I go / I'm going to go for a walk

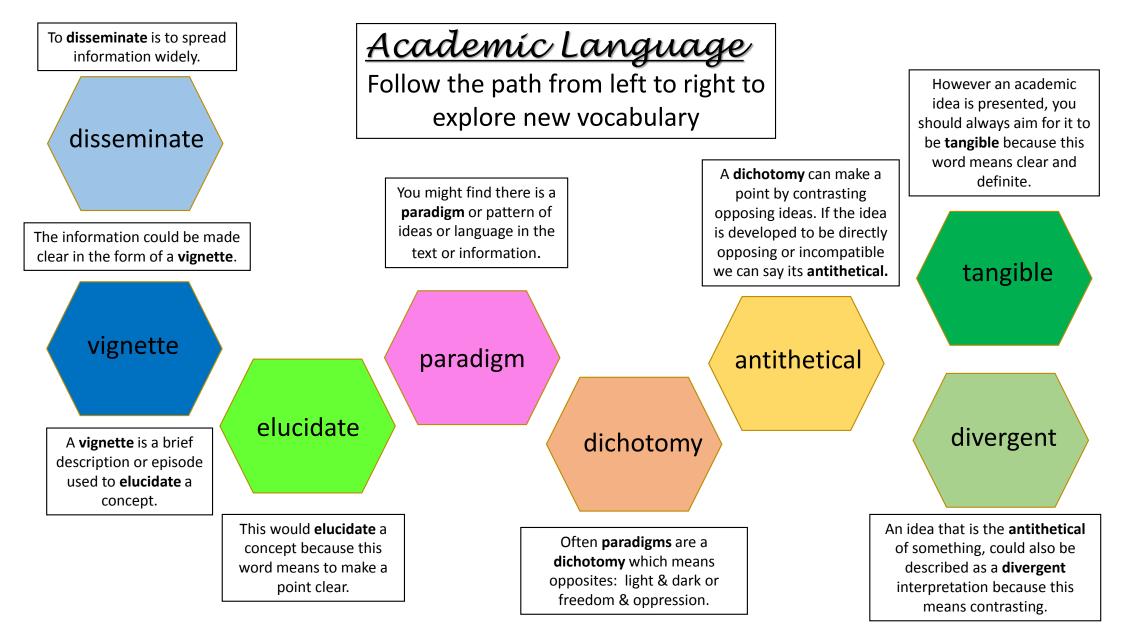
subí / subo / voy a subir una torre – I went up / I go up / I am going to go up a tower

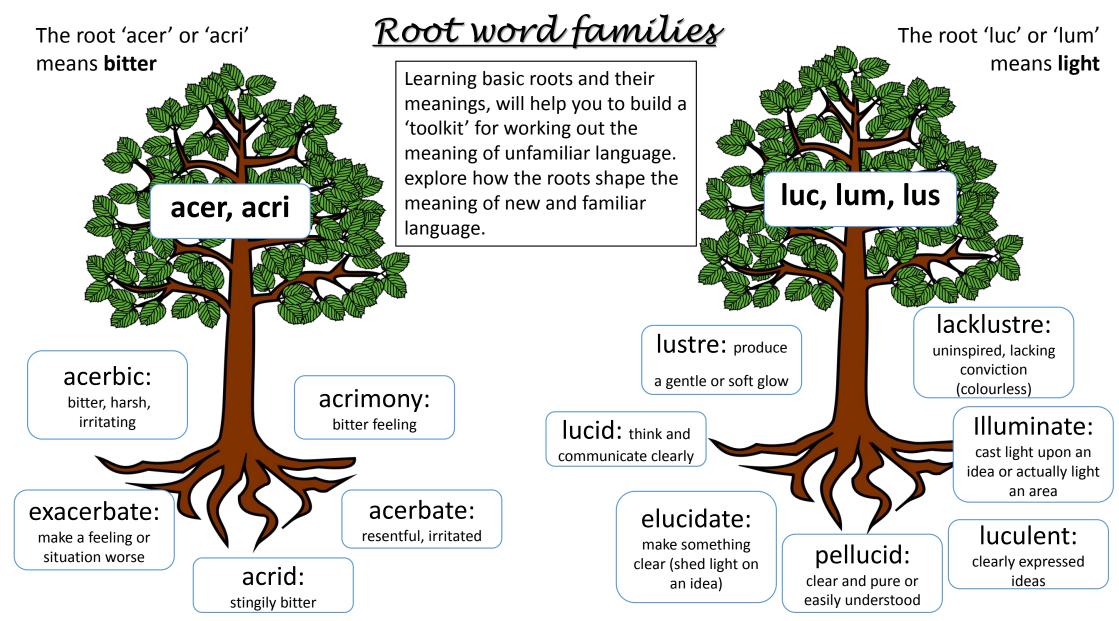
cogí / cojo / voy a coger un autobús turístico- I caught / I catch / I'm going to catch a tourist bus

bailé / bailo / voy a bailar – I danced / I dance / I'm going to dance

tuve que / tengo que / voy a tener que compartir un dormitorio con — I had to / I have to / I'm going to have to share a room with

Quisiera volver a Grecia una vez más – I'd like to return to Greece once more





LAST PAGE