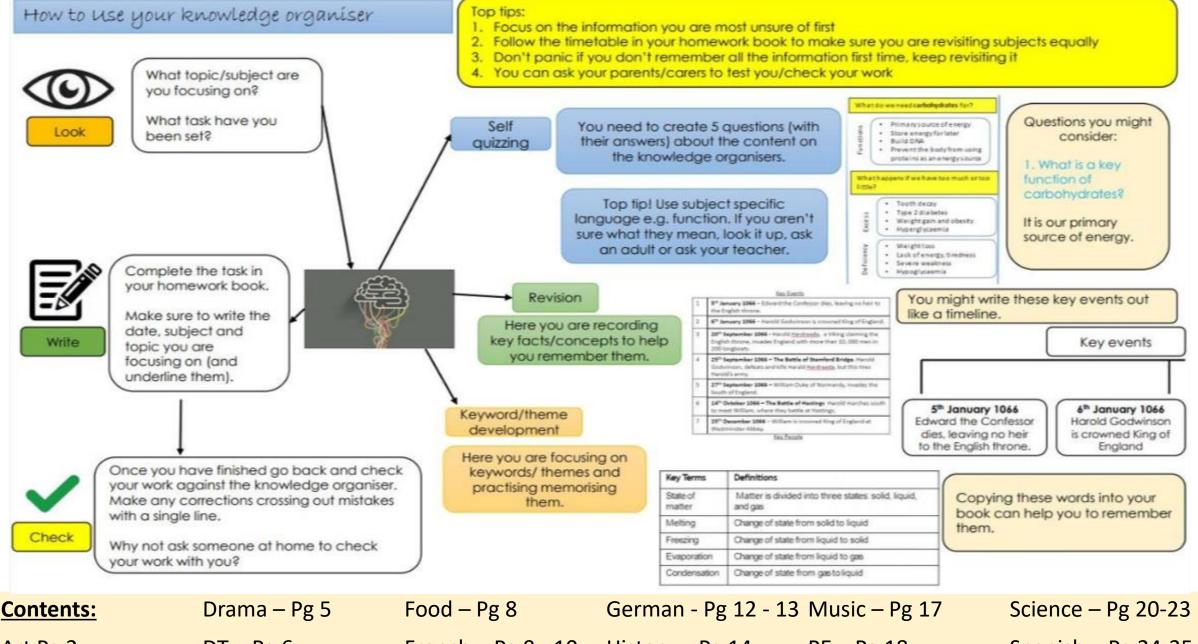


25th April 2022	Week A
2 nd May 2022	Week B
9 th May 2022	Week A
16 th May 2022	Week B
23 rd May 2022	Week A

Complete your homework on the night stated e.g. if it is a Monday week A you will complete DT and English homework.

Knowledge Organisers 2021-22 Year 8 – Term 5

	Week A	Week B
Monday	English/DT	Science/MFL
Tuesday	Maths/Drama	ICT/PE
Wednesday	Science	English
Thursday	RS/Music	Geography/Art
Friday	History	Maths



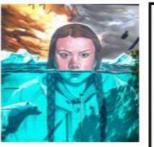
contents.	Diama – Fg 5	1000 – Fg 8	German - Fg 12 - 13	o Music - Fg 17	Science - Fg 20-23
Art Pg 2	DT – Pg 6	French – Pg 9 - 10	History – Pg 14	PE – Pg 18	Spanish – Pg 24-25
ICT Pg 3 - 4	English – Pg 7	Geog – Pg 11	Maths – Pg 15-16	RS – Pg 19	Textiles - Pg 26

Year 8 Our Environment









Keywords:

Climate Change

Graffiti

Extinction

Environment

Habitat

Street Art



Content: In this project you will develop knowledge of environmental issues.

Outcomes- Art works inspired by environmental issues and the Artists you have studied.

Understand-what inspired artists to create their work and how to critically analyse their work. Develop skills- in observational drawing, colour theory, painting and visual communication.

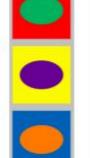
Andy Warhol's "Endangered Species" series includes 10 silkscreen prints. The animals where listed on the endangered at the time they were made in 1983. Andy Warhol made these prints to raise awareness about the endangered species. Andy Warhol is a famous artist from the Pop Art movement. He used images found in popular culture and used an industrial printing method to make his work.



R

NeverCrew are a Swiss based street artist duo; Christian Rebecchi and Pablo Togni. The mural above 'Exhausting Machine' was created for the Vancouver Mural Festival in 2016. Nevercrew's art work explores the issues of climate change and pollution and the effect it is having on nature. You can find more information about their work at their website. https://nevercrew.com/about

In colour theory, a tint is a mixture of a colour with white, which reduces darkness, while a shade is a mixture with black, which increases darkness.



-Shades→





Complementary colours are pairs of colours that contrast with each other more than any other colour, and when placed side-by-side make each other look brighter.

Year ∞ 1 Hardware

Any physical component of a computer system. Internal Hardware: Found inside the computer External Hardware: Found outside the computer Peripheral Device

Addition hardware connected externally.

Input Device

Year 7 - Knowledge

ed to put data into a system

Hardware used Output Device

ed to present data to a user

ary Memory - Memory accessed directly by the

Volatile memory (lost when the power is off) used to store data in current use. The CPU fetches data

Non-volatile memory (not lost when the power is off)

Magnetic - Data on magnetic disks

Relatively cheap

Can be damagnetic

- Solid State damaged easily a on ROM chips nockproof, energy us

- Expensive
 Optical Data on disks, read by laser
 + Cheap and portable

CPU - Hardware component that processes data Stands for Central Processing Unit. The processor works by using the "Fetch Decode Execute Cycle".

Embedded System ide of a larger system wave, Dishwasher, Fridge



CPU is

CPU is a component that processes data
The processor works by using the "Fetch Decode Execute Cycle".

- Instructions are fetched from
- Instructions are then decoded memory.
- needs to be done.
 Instructions are the executed

to find out what processing

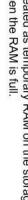
- Clock Speed Hov How fast data
- **Cores -** How many
- at once instructions can be processed
- CPU Cache - Amount of data that can be stored close to the

Factor s affecting choice

- ost
- Storage Size
- Physical Size Performance
- Reliability



Virtual Memory











CPU

Year ∞ Networks

Strong Passwords
Prevents unauthorised access to a computer
system. A strong password contains: Uppercase
letters, Lowercase letters, Numbers, Symbols, 8 or

important to regularly save files/work so that you

- Save in your documents
 Save with a relevant file name
 Saved in an appropriate folder structure
 Save the file in a folder that is relevant to the topic
 we and Save As

on of the

Example:

Example:The Internet
WPAN (Personal Area Network) Network in a large geographical area

Network centred around a single user

Bluetooth Headset

Networks
Computers connected together that share data and

Cloud Storage

that you can

- nore local storage

- et hacked / a third party g term

Hotspot **Advantages** of Networks:

- Sharing files is easier Share hardware
- (printers)
- User accounts can be Updates are central

stored centrally Disadvantages of Network:

- Set up could be
- expensive Vulnerable to hacking
- Need specific hardware
- Might need a network



mrahmedcomputing.co.uk

Boolean Logic

Logic Gates - Elements that take inputs and produce outputs

Truth Tables - A table that shows all the

circuit or gate input and output combinations of a logic







5



ROM

Non volatile memory used to operate a system e.g. **BIOS** data to





Created as temporary RAM on the storage when the RAM is full.



Bluetooth

mrahmedcomputing.co.uk

- Very common connection
- type and Low power usage Low bandwidth and Short

Two or more computers cont together that share data and

connected

Networks Types

LAN (Local Area Network)

resources

- connected together using

Fast connection

- More secure than wireless Set up could be expensive
- Wires are trip hazards
 Difficult to connect new

Wireless Networks

- Connection can be interrupted by walls and other

Cyber Security

softwares

Hacking - People that gain unauthorised Malware Any hostile or intrusive







Short range wireless connection
+ Very common conn

range

Wired and Wireless

Wired Networks

wires. Computers

Network in a small geographical area Example: Small Office, School WAN (Wide Area Network)

devices

Computers connected together using wireless connections (Wi-Fi).

+ Freedom to move around

_ess secure

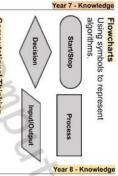
electronic devices

access to a computer

Prevention - Passwords, Antivirus

Year ∞ omputational **Thinking**

Variables



Computational Thinking
Algorithm
Step by step list of instructions to complete a task Abstraction
Process of removing unn

Decomposition Process of breaki

king down tasks into

seudocode

maller sub tasks
attern Recognition
inding the similarities
mong small, decompo

ng algor using a

- Get name = "N
 IF name = "N
 Display
 cool"
 ELSE:

- kind Display "You nd of cool"

Memory in code that changes 1. name ← USERINPUT Programming Constructs age ← US age < 17 OUTPUT name

w OUTPUT "You can not

Sequence - More than 1 line of code outside Selection and Iteration structures. USERINPUT

Operators

- THEN
- drive

Selection - IF Statement (decisions)

00

- age IF a e ← USERINPUT age < 17 THEN
- 4 7 ELSE
 - W OUTPUT "You can not drive"

OUTPUT "You can drive"

teration - Repetition in instructions joke?"

- OUTPUT "Want USERINPUT to hear
- 3.21 joke ← USE WHILE joke «Yes»
- OUTPUT "Want to hear a joke?"
- joke ← USERINPUT OUTPUT "A fish swam into a OUTPUT "Damn"



Character - An individual letter e.g. "A" String - A group of characters e.g. apple12 Integer - A whole number e.g. 58 Real/Float - A decimal number e.g. 4.58 Boolean - True or False

Data Types

Operator Multiplication Divide Addition Equal More/Equal More Than Less/Equal Less Than Not Equal

Errors

in the logic or structure of the problem.

Syntax Error - Syntax is the spelling and Logic Error - Occurs when there is a fault

grammar of a programming language. An error occurs when you type in the code

wall incorrectly.

a



Debugging

fixing them The process of identifying errors (bugs) and

Year 789 1 Data Representation

Number Bases

00

1 0 0 0 0 32

62

Denary Base 10 Numbers -23, 5

Binary Base 2 Numbers

1 0

01010101

Binary Arithmetic

10

00

4 0

001

000

Rules of Addition 0+0=0 0+1=1 +0=

V

1+1=0 Carry 1 1+1+1=1 Carr 1 Carry 1

number created to represent a When and extra bit is **OVERFLOW ERROR**

Storage Units

you use, the higher the file size. The more bits of Binary

\$

	+				
1000	—	Byte	\rightarrow	x8	
1000	-	Kilobyte	\rightarrow	x1000	
1000	←	Megabyte	\rightarrow	x1000	
1000	-	Gigabyte	\rightarrow	x1000	
		1			

2		-	+	5	-		+	
×		0	7	-			0	
-		_	0	7		_	0	_
0	2ME		0	0		-	0	0
0	2Mb to Bits	0	1	0	*	0	0	-
0	Bits	_	1		4	0	_	0
11	1000	0	1			0	4	0
		0	0	0		0	1	_
			_	0			0	-

0 0 0 0	0 0 0 0	0 0 0 0	0 0 x 1	100	× - 0
0 0	0 ×	0	0 0		,,
	00		0		

ASCII

TABL

ш

ASCII and Unicode

REPROFIE

NACE CERT

ASCII
7 bit ASCII used to represent 128 characters
Only enough for English language.
Unicode ₹.

binary

Created to extend binary values for other languages using 16 bit numbers. This allows for 65,536 characters to be

槛	6	C	-	-	A	C	Þ
11	11	z	ш	11.	п	11	S
0	0	-	33	84	65	67	C
0	0	c	11	11	11.	11	-
0	0	0	0	0	0	0	(to
_	0	0	0	-		-	ø
0		m	-	0	0	0	r
0	0		0	-	0	0)
0	0		0	0	0	0	
0	_		0	-	0	0	Г
0			0	0	0	_	
_			_	0		-	
0	_		п	11	11	11	
0	-		œ	00	œ	00	
0	-		bits	bits	bits	bits	
_	0						
_			11	32	11	00	
-	0		4	1	32	×	
(4167	(2554		bytes	8	bits	4	

Representing Images

Pixel - Small dot on of colour on an image Resolution - Amount of pixels on an

pixel (amounts of colours available)
Factors that affect the quality and file Colour/Bit Depth - Amount of bits in each

means the file size will increase.

Working out file size: means the quality will improve. It also increasing resolution and colour depth

File size (bits) = Resolution x Bit Depth



Using stimuli to develop ideas

There are a wide range of **stimuli** to choose from, from which a **devised** work can be created. These include:

- pictures
- poems
- music
- articles
- artefacts
- paintings



It is important to allow a limited time frame to discuss responses to the **starting point** or stimulus. Ask:

- Who are the target audience?
- What should be said to them?
- What should be shown to them?
- How should they feel by the end of the drama?

From the very start of the process, ideas should be tried out practically. For example:

- create six tableaux immediately this could lead to other ideas
- write spontaneously for two minutes in response to the starting point
- share ideas
- improvise a two-minute scene without thinking or planning this could generate new ideas
- set tasks
- research the topic get images, facts, statistics, interviews, etc
- explore real-life events and use spoken or written stories from people - this may lift practical work to a higher standard.

When thinking about character and body, consider the following points:

- What is the style of the piece being created?
- How might the character stand and move?
- What gestures and mannerisms do they employ?
- How can they use posture and body language to physically tell the narrative?
- How will they walk around the space?
- Experiment with levels, lifts and proxemics.

Ideas to consider might include:

- experimenting with time frames through use of <u>flashback</u> and flashforward
- performing a range of roles through multi-role play
- trying out choral speaking as a group to get across important messages
- direct address and narration to your audience so you create on extra impact on them
- trying a moment in slow motion or at high speed to contrast with other parts of the piece

Do not underestimate the importance and impact of stillness and silence - the inclusion of these can have varying effects on an audience and work especially well to add tension or impact.

Teamwork

It is important to work together as a team and commit clearly to that group:

- turn up on time
- be positive
- say yes to ideas
- respect other opinions
- take it in turns to lead a warm-up or direct a section of the piece

At the very beginning of the devising, things will not be perfect. Remember the bigger picture and be positive, knowing that details can be fine-tuned later on. Groups that are always evolving and experimenting with their ideas can experience more success with their work.

Other ideas to try out might include:

- changing the order of events to make the structure more interesting
- trying out monologues for different characters
- using music and devising a short section of mime to accompany this
- experimenting with your use of space and levels within the performance space
- doing something at the same time in synchronisation to emphasise the scene

It is important to be willing to let go of things, make changes and keep on researching. It could help to listen to others, step out of the scene and watch it with the eye of a critical friend. Other ideas include:

- Trying some off-text improvisation, placing the characters in a different situation, eg what would they be like in ten years time, at work or on holiday?
- Trying the play in reverse or swapping characters over to see them through another pair of eyes.
- Re-enacting the <u>sub-text</u> only what is it that's not said and how can this be emphasised?
- Hot-seating the characters if this is done while walking around the space, it places less pressure on the person being asked the questions and gives less time to overthink answers.
- Filming and watching it back to make improvements can everything be heard and seen, does it make sense and can the audience understand what is taking place?
- Trying out alternative endings what difference do they make and could two or more be included to really make the audience think?

Working as a team

Everyone in a production has a clear role, and with that clear responsibility. Everyone needs to know what they should be doing, as well as how their role fits in with the rest of the team and the whole production. For this, good communication is essential. In the early stages of the production cycle, research can be done into particular roles, which could include watching videos or reading about a specific topic, going to live theatre performances, or developing a particular skill. Each member of the production also needs to be aware of all health and safety considerations to ensure that everyone, including the audience, is kept safe.

Also, try out other subtleties, such as:

- pouse
- silence
- emphosis
- chanting
- rapping
- whispering





- experiment with narration
- narrate actions in the third person
- choral speaking can be very effective when it's done well
- experiment with soundscapes to create atmosphere, repeating different sounds or words in unison

Blocking

The performance can then be worked through scene by scene to establish where actors should be on the stage and when, known as **blocking**. The main focus should be:

- the use of space
- the set
- how to establish mood and atmosphere

Drama Year 8
Term 5 & 6
Knowledge
organiser



Year 8 D&T - Night Light Project



is for Aesthetics



Analyse the **Dinosaur Night** Light by using **ACCESS FM**



Step 6:

Replace

Step 4:

Reuse

Step 5:

Recycle

Step 1

Rethink

Step 3:

Reduce

Step 2

Refuse

The

6 R's

is for Customer

You can use ACCESS FM to analyse existing products, write a specification, annotate designs and to evaluate the final outcome!

is for Environment



is for Size















Practice your tonal drawing skill here

Develop Ideas with Sketches

- "Freehand" means drawing without using any equipment (except a pencil or pen).
- 2) You can combine 20 and 30 sketches to explain details.
- And you can annotate your sketches (add notes) to explain details further, e.g. describing the II and processes you'd use.



Practice your isometric drawing here

Fret Saw

Isometric Drawing Shows Objects at 30°

- 1) Isometric drawing can be used to show a 3D picture of an object.
- 2) It doesn't show perspective (things don't get smaller in the distance), but it's easy to get dimensions right.
- 3) There are three main rules when drawing in isometric:
 - Vertical edges are drawn as vertical lines Horizontal edges are drawn at 30°. Parallel edges appear as purallel lines

This drawing's been done on isometric det paper You could use plain paper and a 30760" set square instead

Electrical Systems Involve Circuits 1) All electrical systems need to have a complete circuit to make them work. Here's a simple circuit: The circuit isn't complete yet — there's a gap You can draw diagrams of

at the switch. When you proso the switch dectrical circuits using symbols alown you make a complete circuit. An electric 6V to represent the components. current flows and the lamp comes on.

- The materials you use in a circuit have to be conductors they need to let electricity flow through. E.g. copper is used for the wire that joins the components because it's a good conductor and is ductile 3) Insulators (e.g. PVC) don't let electricity through, so they're used to cost the outside of wires. 4) Voltage from a power cell (a battery) or the mains pushes the electric current around a circuit,
 - Mains power is used for non-portable products like fridges and televisions.
 - Butteries are used in portable products. There are disposable batteries and eschargeable ones. <u>Rechargeable</u> butteries are more <u>opporator</u> than disposable butteries, but can be cheaper in the long

rigid material that weathers well.

run as you don't need to keep replacing them. They're built in to some products, e.g. mobile phones.

5) Resistors are used to reduce the current in a circuit so you don't damage delicate components (e.g. the lamp in the circuit above). Resistance is stripse show the measured in ohms (Ω). A larger resistance means less ou



LISE POWER SUPPLY

CAD = Computer Aided Design CAM = Computer Aided Manufacture

Use modelling to improve your design

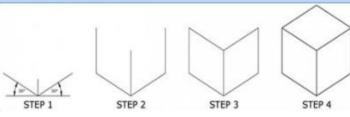
Modelling is a good way to solve problems with your design. You can make models using card as it's cheap and easy to work with.

When modelling, try out different aspects of your design. For example, you could model just one part of the product separately, to check it works, before going on to the rest.

Test and evaluate each model

After you've made each model, do some tests to check that it's how it should be. Get some potential customers to try it out and give you feedback

- You'll probably find there are some things that don't work out quite how you'd hoped. Write down what he problem is, suggest how to fix it and try out another model.
- Record how the design develops take photos of your models.
- You should evaluate each model, against the design by considering the strengths and weaknesses.





	The	mes			Gothic characters
oppressors. This r controlling. Wome	opressed - Men were the meant they were tyrannical and en were oppressed. This meant that sive and controlled by the men.	Isolation - characters are often isolated either physically, emotionally, or mentally in order to create an atmosphere of fear.	Submissive 1	female	Women are often portrayed as weak, helpless and innocent in Gothic Literature. They were subjected to male oppression. They could be forced to marry someone they do not love or subjected to a form of aggression.
Supernatural - a	force beyond scientific reasoning.	Imprisonment - Often linked with the submissive female who would be trapped against her will.	Tyrannical r	males	Men are often portrayed as powerful in Gothic Literature. They use their strength to manipulate. Men are portrayed as controlling and as the oppressors.
romance. Many re	ic novels have an element of elationships, however, become lled with cruelty and sadness.	Family - often the families in Gothic novels become splintered because of the discovery of sin, betrayal, or perhaps even due to an ancestral curse.	Persecuted heroines		Women who are courageous are often persecuted (oppressed/inflicted with pain and suffering) by an evil male.
	Cont	text	Ambitious Scientists		Scientists in Gothic reflect Victorian society's fascination with science and their fear that scientific knowledge would lead to the destruction of society
Enlightenment period		ssed the belief that science and logic give people more on and religion. This overtook the belief in religion.	Supernatura characters	al	Vampires, ghosts and demons appear in Gothic fiction to build tension and suspense.
Romantic period		ment movement, a period that sought to revolutionize scientific e could also learn from Nature and they celebrated the power	Naïve narrat	tors	An innocent narrator who lacks experience.
					Gothic Settings
Victorian era	Victorian novel was seen as a way of promo	is time. It was a period of industrialisation. Up until now the oting virtue and moral behaviour; many Victorians believed inds because it was full of sin. They even feared a revolution.	Possible Gothic settings		subterranean passages - Passages which are underground. They are concealed and t which can create a sinister feel.
Horror Vs Gothic		horror. Whilst they share lots of similar themes, the Horror is gore, terrifying its reader; the Gothic is more subtle in its atmosphere to build tension.	, sectings		ring abbeys - The abbeys/churches would usually have vaults, arches, pillars. This I create a spooky, desolate atmosphere. Architecture was and important part of
	Symbo	olism		Gottin	
				Jagge	ed mountains - Isolated areas away from civilization. They can invoke horror and awe.
Candle light - links t tension and suspense	o dark subterranean passages. Creates	Weather - pathetic fallacy (when the weather reflects the mood) is used to reflect the mood.			te inhospitable places - A harsh environment to live in away from any life to create a g of isolation and abandonment - I.e. The Artic.
Ravens - a bad/ill or	nen. These birds symbolise death.	Remote places -Gothic novels are often set in distant places, increasing the protagonist's sense of vulnerability to the			
		supernatural and evil forces.		The w	vilderness - A neglected, abandoned area.

Why do we cook food?

The application of heat in the preparation of a food or mixture may:

improve digestibility; improve appearance, flavour, odour and texture; increase the availability of nutrients; prevent spoilage; increase keeping qualities.

Heat Exchange

As a food is heated, its molecules absorb energy and vibrate more vigorously. The faster they move, the more the temperature of the food rises. If heat is removed, the molecules become less active, reducing the foods temperature.

Heat can be exchanged in three ways:

- conduction;
- convection;
- radiation

Factors that affect food choice

Coeliac – cannot eat products containing gluten.

Lactose intolerance – the body can't digest the sugar lactose in dairy products.

Vegetarian: No meat in the diet Vegan: No products from a nimals in the diet e.g. meat, milk or honey.

Religion:

Islam: Requires Halal meat, no alcohol, no pork

Judaism: Requires Kosher food, no meat and dairy together, no pork

Hinduism: No beef

Micro-nutrients

Vita mins and minerals are essential nutrients that your body needs in small amounts to work properly.

Fat-soluble vitamins

Fat-soluble vitamins (vitamin A, D, E and K) are mainly found in: animal fats, vegetable oils, dairy foods, liver and oily fish While your body needs these vitamins to work properly, you don' need to eat foods containing them

Water-soluble vitamins

Water-soluble vitamins (vitamin C, the B vitamins and folic acid) are mainly found in:

fruit and vegetables, grains, milk and dairy foods

These vitamins aren't stored in the body, so you need to have them more frequently.

If you have more than you need your body gets rid of the extra vita mins when you urinate.

Minerals

Minerals indude calcium and iron amongst many others and are found in:

Meat, cereals, nuts, fish, milk and dairy foods, fruit and vegetables

Minerals are necessary for 3 main reasons:

Building strong bones and teeth Controlling body fluids inside and outside cells

Turning the food you eat into energy







Macros



Quickest Source Energy found in fruits, reggios & grains

e of

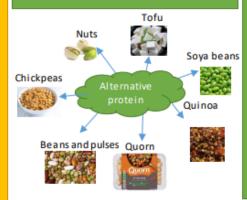
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Alternative protein

Proteins are known as the building blocks of life: In the body, they break down into amino acids that promote cell growth and repair.

(They also take longer to digest than carbohydrates, helping you feel fuller for longer and on fewer calories—a plus for anyone trying to lose weight.) You probably know that a nimal products—meat, eggs, and dairy—are a good source of protein.



Food Poisoning

Food poisoning is a disease caused by eating a spoiled or contaminated food. Such food may contain certain microorganisms, toxins or enzymes.

Symptoms of food poisoning:

- Stomach pains and cramps
- Na usea and vomiting 🥊
- Diarrhoea
- o Fever
- o Shivers



Vegetarians and vegans don't consume meatso instead they use protein alternative products which are manufactured in order to provide protein in a diet and protein rich foods.

Protein complementation is when two LBV proteins are eaten together. Examples of protein complementation's are: hummus with pitta bread; nut roast made from a variety of nuts and seeds; vegetable curry and rice; lentils oup and wholemeal bread; baked beans on

LBV proteins-. Foods that are deficient in one or more of the essential amino acids are said to have a **low biological value (LBV)**. Foods originating from plants (cereals, nuts, seeds, lentils, beans, pulses)

Setting and thickening (coagulation): Eggs will set when cooked. This is shown when you make a quicke or an egg custand

Enriching: Eggs add nutritional value to a dish. This is shown when you make egg fried rice.

Raising agent: When whisked, eggs can hold air and become a raising agent. They can make a mixture light in texture, e.g. Chocolate éclairs.

As a glaze and to add colour: Be a ten egg can be used as a glaze which turns golden brown on heating. An example is glazing sausage rolls with egg before cooking to give a golden brown finish.

Aeration: Eggs can be whisked to hold air and form a foam. The protein in the egg white becomes stretched and holds the air bubbles. This is shown in making meringues or a whisked sponge. When the meringues or whisked sponge are cooked the protein sets and hardens.

Food Spoilag

Cross- contamination

is s-contamination means that bacteria, toxins or food particles were ns ferred to a food product.

Cross-contamination can cause food poisoning and allergic reactions.

An a phylactic shock is a life-threatening reaction of the immune system to an allergen.

Food can become contaminated	
from:	

- Waste food and rubbish
- ☐ Pest and rodents☐ The cook's hand
- ☐ Work surfaces and equipment
- Other contaminated foods, including high-risk foods.
- Most common allergens:

 Nuts
- ☐ Fish and seafood
 - ☐ Milk ☐ Eggs



Signs of Food Spoilage- Many species of microorganism and some enzymes can cause food spoilage.

Food Spoilage The bacteria Clostridium botulinum produces a toxin which causes meat preserves to bulge. Bacteria can also make meat products look slimy and green in colour. Ferments sugar in juices augar in juices and beverages, making them sour, fizzy and foamy. Ferments sugar in juices and beverages, making them sour, fizzy and foamy. Turns bananas, apples, products such as bread, grapes, tomatoes and jams.	ı				
Spoilage bacteria Clostridium botulinum produces a toxin which causes meat preserves to bulge. Bacteria can also make meat products look slimy and green sugar in juices and beverages, making them sour, fizzy and foamy. sugar in juices and beverages, making them sour, fizzy and foamy. white or black coat on food products such as bread, grapes, tomatoes and jams. bananas, apples, potatoes and other foods brown.		Bacteria	Yeast	Mould	Enzymes
		bacteria Clostridium botulinum produces a toxin which causes meat preserves to bulge. Bacteria can also make meat products look slimy and green	sugarinjuices and beverages, making them sour, fizzy	white or black coat on food products such as bread, grapes, tomatoes and	bananas, apples, potatoesand otherfoods

Key words

Microorganism- a very small living bacteria.

Toxins-poison of plant or animal origin, especially one produced by or derived from microorganisms

Preserves - something in its original state

Ferments – The process in which yeast produces the gas carbon dioxide and alcohol.



My Holiday experiences! Year 8 French ARE 3 Vocab list



les participes passés irréguliers?

Faire → fait Prendre → pris Boire → bu Voir → vu Lire → lu Vouloir → voulu Dire → dit Devenir → devenu Avoir → eu

Irregular past participles?

To do \rightarrow did To take → took To drink → drank To see → saw To read → read To want → wanted To say → said To become → became To have → had To write → wrote

Quand?

Aujourd'hui Normalement D'habitude Parfois/quelquefois Pendant la pause/le trajet Le week-end Après le collège deux fois par semaine souvent Toujours Rarement De temps en temps Le lundi

When?

Yesterday

Recently

Last week

Last year

Tomorrow

In the future

Next week

Next year

In a month

Next weekend

Soon

Today Normally Usually Sometimes During breaktime/the journey On the weekend After school Twice a week Often Always Rarely From time to time On Monday



Hier

Récemment Le week-end dernier La semaine dernière L'année dernière Il v a un mois

Demain Bientôt A l'avenir Le week-end prochain La semaine prochaine L'année prochaine Dans un mois



Qu'est-ce que tu fais normalement?

Se reposer (je me repose) Se relaxer (je me relaxe) S'amuser (je m'amuse) Se baigner (je me baigne) S'habiller (je m'habille) Se lever (je me lève) Se laver (je me lave) Se réveiller (je me réveille) S'entendre avec (je m'entends avec) Se brosser les dents/ les cheveux (je me brosse)

Se doucher (je me douche) Se maguiller (je me maguille)

What do you do on holidays?

To relax To relax To have fun To bathe To get dressed To get up To wash To wake up To get on with To brush teeth/hair

To shower

To put on make-up

Les opinions C'était

Écrire → écrit

Génial **Fantastique** Intéressant Touchant Inoubliable Incrovable

Ennuyeux/barbant Trop long

Passionnant Émouvante

Trop court

Triste

Opinions

It was ... Great Fantastic Interesting Moving (emotionally) Unforgetable

Incredible Too short Boring Trop long Exciting **Emotional** sad

Il faisait quel temps?

il faisait beau il faisait mauvais il faisait chaud il faisait froid il faisait gris il faisait nuageux il y avait du soleil il v avait du vent il v avait du brouillard il y avait de l'orage il pleuvait il neigeait

il geleait

What was the weather like?

The weather was nice The weather was bad It was hot It was cold It was grey / overcast It was cloudy It was sunny

It was windy It was foggy It was stormy It was raining It was snowing It was icv

Learning

My holiday experiences Year 8 French ARE 3 Knowledge Organiser

Reflexive verbs, the perfect tense (past tense)

A **verb** is a doing, being or having word. e.g. to speak, to eat, to be. **Reflexive verbs** in French are verbs which usually mean an action done to yourself (e.g. straighten your hair, brush your teeth, etc.). Many are regular -er verbs and they need an extra **reflexive pronoun**.

Subject pronouns	Reflexive pronoun
je (I)	me
tu (you)	te
il (he), elle (she), on (we)	se
nous (we)	nous
vous (you) (pl)	vous
ils/elles (they)	se

The perfect tense:

You can talk about the past by using the perfect tense (le passé composé). The perfect tense has 3 parts:

- 1. The subject pronoun (eg. Je, nous)
- 2. The auxiliary (avoir or être)
- 3. The past participle

To form the past participle, take off the infinitive endings (-er, -ir or -re) and add the following endings instead:

- -ER verbs > é
- -IR verbs> i
- -RE verbs > u

Examples:

J'<u>ai</u> achet<u>é</u> des baskets au centre commercial. I <u>have bought</u> trainers at the shopping mall.

Hier il <u>a</u> jou<u>é</u> au foot dans le parc. Yesterday he play<u>ed</u> football in the park.

Tu es allé en ville hier? You went to town yesterday?

The 2 auxiliary verbs are AVOIR or ÊTRE.

- Use AVOIR with most verbs.
- Use ÊTRE with reflexive verbs and DR. MRS VANDERTRAMP verbs. [Devenir (to become), Revenir (to come back), Monter (to go up), Retourner (to return), Sortir (to go out), Venir (to come), Aller (to go), Naître (to be born), Descendre (to go down), Entrer (to enter), Rentrer (to go home/to return), Tomber (to fall), Rester (to remain), Arriver (to arrive), Mourir (to die), Partir (to leave).]

Examples:

Se lisser les cheveux - to straighten one's hair

Je me lisse les cheveux > I straighten my hair

Se brosser les dents - to brush one's teeth

On se brosse les dents > we brush our teeth

Se doucher - to shower

Tu te douches le matin ou le soir? Do you shower

in the morning or in the evening?

AVOIR	ÊTRE
J'ai	Je suis
Tu as	Tu es
II /elle a	II /elle est
Nous avons	Nous sommes
Vous avez	Vous êtes
lls /elles ont	Ils /elles sont

Remember!

When using être to form the perfect tense your past participle must agree with the subject pronoun.

Add-e if feminine e.g. elle est allée

Add-s if plural e.g. ils sont allés

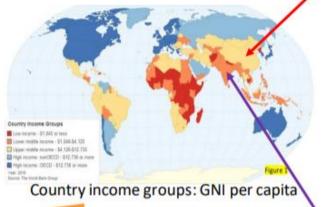
Add –es if feminine plural eg. elles sont allées

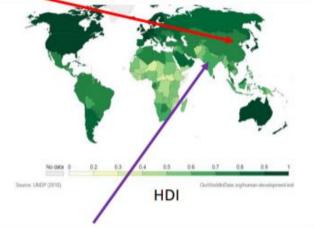
	Keywords
Development	A process of change that improves the standards of living of people in a country
NEE	Newly emerging economy (not yet fully developed but making progress at a rapid rate)
Global	The world
Globalisation	The process by which the world is becoming increasingly interconnected
Transnational Corporation (TNC)	A huge company that does business in several countries
Urbanisation	An increase in the proportion of people living in urban areas in a country
Human Development Index (HDI)	Combines three measures of development: life expectancy, average number of school years and GNI per capita. This produces a number between 0-1, where 1 is the highest HDI score.
GNI per capita	The value of a country's goods and services, divided by the number of people living in that country
BRICs	5 economies working together to develop and grow their economies - Brazil, Russia, India, China, South Africa
Push factor	Negative things that make people want to move to a new area e.g. war
Pull factor	Positive aspects that attract people to move to a place e.g. employment opportunities

Year 8 Geography

How is Asia changing?

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7	•	How has China developed?	Advantages of China's growing industry	Problems with China's growing industry		
	A huge po	opulation = kforce	Factories offer lots of jobs which reduces unemployment	Factory smoke harming the rural industry		
	Has 12% o	of the world's esources	Workers pay tax which helps the government to provide other services	People work long days and sometimes in poor conditions		





Rapid development in India has led to urbanisation.
This has had positive and negative impacts:

Positive More people have access to clean water and medical care in cities	Negative: Air pollution has increased from industry and transport developments
Wages have increased and TNCs employ thousands of people	Poor working conditions and claims of exploitation



8.7 German Present tense holidays vocab. list

rederation		
Wohin fährst du	Where do you travel?	
Ich reise	I travel	
Ich fahre	I go	
nach Berlin/London	To Paris / to London	
nach Frankreich	To France	
nach Spanien	To Spain	
nach England	To England	
nach Schottland	To Scotland	
nach Irland	To Ireland	
nach Polen	To Poland	
nach Deutschland	To Germany	
nach Österreich	To Austria	
nach Wales	To Wales	
nach Italien	To Italy	
in die Schweiz	To Switzerland	
in die Türkei	To Turkey	
in die Karibik	To the Caribbean	
nach Amerika	To the States	

in die Schweiz	To Switzerland
in die Türkei	To Turkey
in die Karibik	To the Caribbean
nach Amerika	To the States
Min filmet/mint du?	Have do you troval3
Wie fährst/reist du?	How do you travel?
zu Fuß	On foot
mit dem Fahrrad	By pushbike
mit dem Motorrad	By motorbike
mit dem Auto/Wager	n By car
mit dem Zug	By train
mit dem Schiff	By boat
mit der U-Bahn	By tube/underground
mit dem Reisebus	By coach
mit dem Bus	By bus
mit dem Flugzeug	By plane
mit der Straßenbahn mit der Fähre = by fer	

Wo bleibst du? Where do you stay? Ich bleibe in I stay in.. einem Hotel A hotel einer Ferienwohnung A holiday flat auf einem Campingplatz A campsite einer Jurte A yurt einem Wohnwagen A caravan einem Zelt A tent einer Jugendherberge A youth hostel einem Mobilheim A static caravan hei meinen Großeltern At my grand-narents'

bei meinen Großeltern		At my grand-parents'
In der Stadt	In ti	ne town
Ich besuche	I vis	it
Wir besuchen	We	visit
der Supermarkt	The	supermarket
die Brücke	The	bridge
das Schwimmbad	The	swimming pool
das Eisstadion	The	ice rink
die Stadtmitte	The	town centre
das Kino	The	cinema
das Museum	The	museum
das Theater	The	theatre
das Verkehrsamt	The	tourist information office
das Einkaufszentrum	The	shopping centre
das Freizeitzentrum	The	leisure centre
der Markt	The	market
das Stadion	The	stadium
der Freizeitpark	The	theme park
das Krankenhaus	The	hospital
die Monumente	The	monuments
die Geschäfte	The	shops
die Kirche	The	church
der Bahnhof	The	train station

	Was machst du in den Ferien?	What do you do on holidays?
	Sich entspannen (ich entspanne mich)	To relax (I relax)
ı	Spaß haben/es macht Spaß	To have fun (it is fun)
ı	sich sonnen	To sunbathe
ı	Denkmäler besuchen	To visit monuments
ı	zum Strand gehen	To go to the beach
ı	ins Restaurant gehen	To go to the restaurant
ı	einkaufen gehen	To go shopping
ı	spazieren gehen	To go for walks
ı	Fotos machen	To take photos
ı	Souvenirs kaufen	To buy souvenirs
	Wassersport machen	To do water sports
I	Wo ist?	Where is?
١	Es ist weit	It's far
ı	Es ist in der Nähe	It's nearby
ı	Es ist 5 Minuten von hier entfernt	It's 5 minutes away
ı	Es ist à 300 Meter entfernt	It's 300 metres away
ı	Gehen Sie geradeaus	Go straight on
ı	An der Ampel	At the traffic lights
ı	Zum Kreisverkehr	To the roundabout
ı	Gehen Sie links	Go left
ı	Gehen Sie rechts	Go right
ı	Nehmen Sie die erste/zweite Straße	Take the first / second road
	über die Brücke	over the bridge
	Wie ist das Wetter?	What is the weather like?
	Es ist schön	It is good weather
	Es ist heiß	It is hot
ı	Es ist sonnig	It is sunny
Į	Es ist kalt	It is cold

Es ist kalt It is cold Es ist 25 Grad It is 25 degrees It is bad weather Es ist schlecht Es regnet It is raining Es schneit It is snowing Es ist windig It is windy Es ist wolkig It is cloudy Es gibt einen Regenbogen There is a rainbow

gehen = to go

ich gehe = I go

du gehst = you go (familiar)

er/sie/es geht = he/she/it goes

wir gehen = we go

ihr geht = you go

Sie gehen = you go (polite)

sie gehen = they go

fahren = to go/drive/travel

ich fahre = I go

du fährst = you go (familiar)

er/sie/es fährt = he/she/it goes

wir fahren = we go

ihr fahrt = you go

Sie fahren = you go (polite)

sie fahren = they go

Phrases 1	that us	e infin	itives.
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An infinitive is the basic form of the verb. In English it starts with to_ to run, to jump, to swim.

In German, the verb ends in **–en** or **n.** The infinitive goes to the end of the sentence

e.g., I will eat - ich werde essen

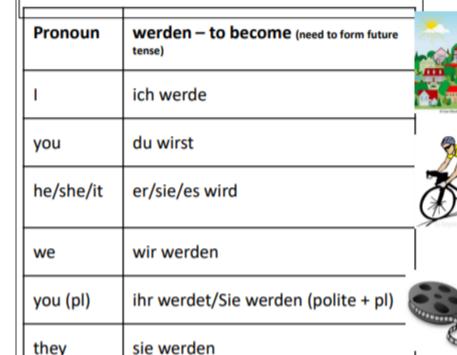
Man kann =You can

Ich werde = I will

Ich muss = I must

These are followed by an infinitive.

Man kann in die Stadt gehen- You can go to the town Ich werde in einem Restaurant essen- I am going to/will eat in a restaurant. Ich muss einkaufen gehen= I must go shopping



ins Einkaufszentrum gehen to go to the shopping centre radfahren to cycle mit meinen Freunden aussgehen to go out with friends ins Kino gehen to go to the cinema die Museen besuchen to visit museums einkaufen gehen to go shopping

um...zu + infinitive = in order to

Ich gehe ins Einkaufszentrum, um einkaufen zu gehen – I go to the shopping centre to go shopping.

Ich gehe zum Park, um Fußball zu spielen – I go to the park, in order to play football.

Enquiry: How and why has democracy in Britain changed 1215-1928?

Today, in the United Kingdom, we live in a democracy, where laws are made by a Parliament that we have elected. However, this hasn't always been the case, we are going to be exploring how people in the UK have protested for their right to vote.

Key Events

1	15 June 1215 – The Magna Carta was signed by King John at Runnymede.
2	22 August 1642 – 3 September 1651 – The English Civil War between the Parliamentarians and the Royalists over how England should be ruled.
3	1688 - Glorious revolution ends absolute power of the monarch.
4	16 th August 1819 - Peterloo Massacre – Cavalry charged at protesters wanted electoral reform.
5	1832 – The Great Reform Act – Gave 40,000 extra men the vote, mostly just the middle classes.
6	1838-1848 – The Chartists Movement – a series of petitions demanding equal voting rights for all men.
7	1918 – Representation of the People Act was passed extending voting rights to all men over 21 and some women over 30.
8	1928 – Representation of the People Act was passed extending voting rights to women over 21 bringing electoral equality.





Historical Skills Focus

interpretation	A viewpoint or opinion.
change	What aspects of democracy changed and why. Considering rates/speed of change, the amount of change and which groups of people were effected by this change.
continuity	What aspects of democracy stayed the same and why.

Further your learning

Want to find out more about our journey to democracy:

https://assets.parliament.uk/educatio n/houses-of-history/main.html

Key Individuals

ı	9	propaganda	Information, can be biased or misleading, that promotes a political cause of point of view.
J	10	democracy	A form of government where the people have a say in how the government is run by voting.
	11	reform	To make changes.
	12	Suffrage	The right to vote in political elections.
	13	Cavaliers	Supporters of King Charles I in the English Civil War – Royalists.
	14	Roundheads	Supporters of the English Parliament in the English Civil War – Parliamentarians.
	15	MP's	Members of Parliament – they represent voters.
	16	charter	A document granting rights/privileges.
	17	Suffragists	NUWSS – National Union of Women's Suffrage Societies – Campaigned non-violently for votes for women.
]	18	Suffragettes	WSPU – Women's Social and Political Union – a militant movement campaigning for votes for women.
	19	Historical Significance	To evaluate what was significant about events, people, and developments in the past that had an impact towards changing the future

Key Terms



King John Magna Carta



King Charles I English Civil War



Oliver Cromwell English Civil War



Henry Hunt
Peterloo Massacre



William Lovett Chartist



John Frost Chartist



William Cuffay Chartist



Millicent Fawcett
Suffragist



Emmeline Pankhurst Suffragette



Emily Davison Suffragette

Solid Geometry is the geometry of threedimensional space, the kind of space we live in.

There are two main types of solids, "Polyhedra", and "Non-Polyhedra"

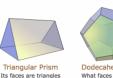
Polyhedra

A **polyhedron** is a solid with flat faces Each face is a polygon (a flat shape with straight sides)

Examples of Polyhedra:







So no curved surfaces: cones, spheres and cylinders are not polyhedrons

Euler's Formula

For any polyhedron that doesn't intersect itself, then the number of faces (F), edges (E) and vertices (V) are linked using Euler's Formula

This can be written: F + V - E = 2

Example: Cube

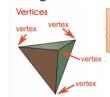
A cube has:

- 6 Faces
- 8 Vertices (corner points)
- 12 Edges

F + V - E = 6 + 8 - 12 = 2

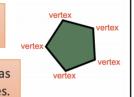
Vertices, Edges and Faces

A vertex (plural: vertices) is a point where two or more line segments meet. This is often called a corner.



This tetrahedron has 4 vertices.

> This pentagon has 5 vertices.



An edge is a line segment between faces.

For a polygon an edge is a line segment on the boundary joining one vertex (corner point) to another.



This Pentagon Has 5 Edges



Has 6 Edges

object.

For a polyhedron an edge is a line segment where two faces meet.

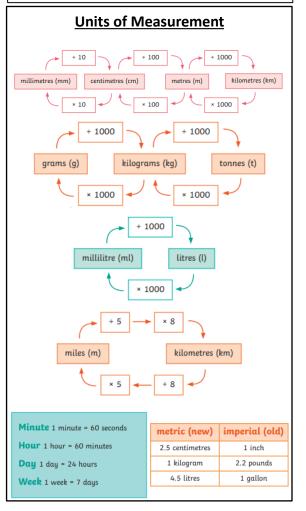
A face is any of the individual flat surfaces of a solid

This tetrahedron has 4 faces (there is one face you can't see)



Prisms: A prism is a solid object with:

- Identical ends
- Flat faces
- The same cross section (found by cutting straight across an object) throughout



Area recap

The **area** of a shape is a measure of the two dimensional space that it covers.

Units include: cm², mm², m²

Shape	Dimensions	Area formula
Square	$a \longrightarrow a$	a^2
Rectangle	$\longleftrightarrow b $	bh
Parallelogram	$ \begin{array}{c} $	bh_{perp}
Triangle	$\bigcup_{b}^{ded} \bigvee_{b}^{ded} \bigvee_{b$	$rac{bh_{perp}}{2}$
Trapezium		$\frac{(a+b)h_{perp}}{2}$
Circle		πr^2

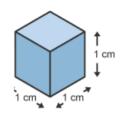
Volume

Volume is the amount of 3-dimensional space something takes up. You can imagine how much water would fit into a container.

Units include: litres, cm³, mm³, m³

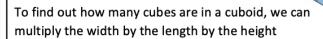
Volume is measured in cubes.

A cubic centimeter is the volume within a cube that has sides of length 1cm. It has a volume of 1cm³ (1cm cubed).



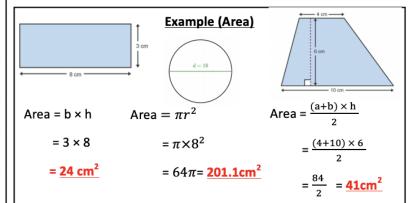
Cubes and Cuboids

This cuboid is made up of 12 cubes. Each cube is 1cm³ so the volume of this cuboid is 12cm³



$$V = w \times I \times h$$

In the cuboid above, we would do $2 \times 2 \times 3 = 12 \text{cm}^3$

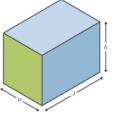


Volume of a prism

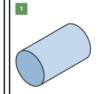
The volume of a cuboid is width \times length \times height $(V = w \times I \times h)$.

We can also think of this as the area of the cross section (in green, which is $w \times h$) \times length

So the Volume = area of the cross section × length



This formula works for all prisms:







- 1. $volume of a cylinder = area of circle \times length$
- **2.** volume of triangular prism = area of triangle \times length
- 3. volume of L-shaped prism = area of L-shape \times length

Example

Here is a triangular prism



The area of the cross section (triangle) is $\frac{b \times h}{2}$

Area =
$$\frac{5 \times 6}{2} = 15 cm^2$$

Volume = area of cross section x length

$$= 15 \times 3.5 = 52.5 \text{ cm}^3$$

The Blues - A genre of music that was born in America in the 1930s Year 8 - Topic 2

12 Bar Blues – A chord sequence used in most blues Music

Improvisation – Making up music on the spot

Walking Bassline A bass line that moves up and down in pitch taking small, regular steps

20 O

C_Blues Scale - Used for improvising

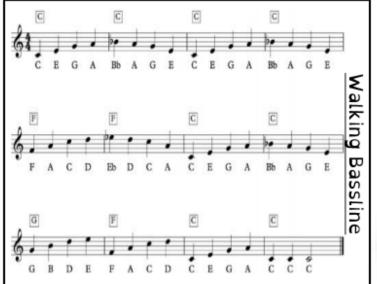


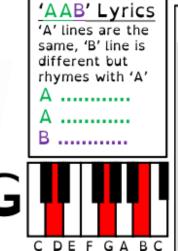
there was a large population of

Chord Sequence

Play each chord 4 times per box. The order of your notes in your chords doesn't matter, just the combination of correct pitches.



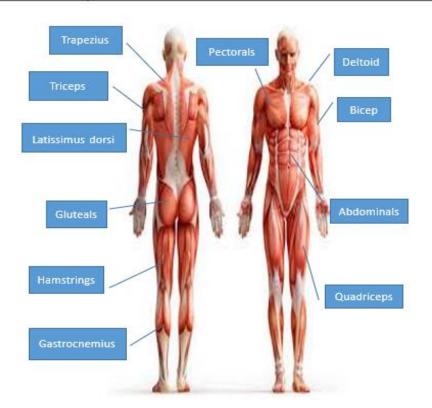




	<u>12 Bar</u>	Blues	
С	С	С	С
F	F	С	С
G	F	С	С

Knowledge Organiser – PE Term 5: Anatomy & Physiology

	Benefits of exercise
Physical health and well-being	Improves fitness levels, heart function and efficiency of the body systems e.g. cardio-vascular system. Reduced risk of some illness e.g. diabetes, helps to prevent obesity, enables you to carry out everyday tasks without getting tired.
Mental health (emotional) and well-being	Reduces stress, release feel-good hormones in the body such as serotonin, increases confidence, helps us to control our emotions and increase resilience.
Social health and well-being	Provides opportunities to socialise/make friends, encourages cooperation and teamwork.



Muscle	Static Stretch
Triceps	
Hamstring	>
Pectorals	
Quadriceps	4
Gluteals	
Biceps	
Deltoids	
Abdominals	3
Gastrocnemius	
Latissimus dorsi	



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	Afterlife?
Key Concept	Definition
Resurrection	Coming back to life after death, like Jesus did 3 days after the crucifixion.
Reincarnation	A spirit starting life after death in a new body, your karma will affect whether your next life in a new body will be better or worse.
Afterlife	Human existence after biological death, this might your soul living on in Heaven or Hell
Rituals	Actions that take place with religious or symbolic meaning, for example cremating a body to ashes to show that the body goes back to the earth.
Karma	Every action has a positive or negative effect on your next life, charity will be rewarded.
Judgement Day	The idea that the present world will end and all souls will be judged,

Humanist views of life and death

- Humanists do not believe in God or superstition.
- They believe that life ends when the body dies.
- There is no reward or punishment for the way we have lived and no one is watching us.
- They should live to help more people be happy.
- They should believe things that are supported by scientific research and evidence.
- That schools, hospitals and laws should be secular, so they can be run in a way that doesn't favour one belief system over another.

Humanists do not have a set of rules that they share, each person can decide how to live using a mixture of, their own experience, the wisdom of others, evidence and research from science and empathy with others people.

-They want to make the most of their lives as they dis they only believe they will 'live on' in the memories of people who knew them, the evidence they leave behind like art or writing, and their genes passed down to family members.

Humanist Funerals

These can be anywhere to suit the person's individual taste - for example someone who enjoyed walks in the woods might have their funeral service in a woodland. They are about remembering the person who has died and being thankful for their life. They can include the persons' favourite songs or

There are eulogies - where people share memories of the person and how they were inspired by them.

They show respect for the dead person, and help the family and friends come to terms with their death, but there is NO mention of 'a better place' or God.

Muslims believe your good and bad deeds will be measured so Allah

Muslim Beliefs

can judge where you go.

Judgement Day

Muslims believe that the souls of people who have died will remain in the grave until Judgement Day. Judgement Day will happen at the end of the world but only Allah knows when it will be. ON this day Allah will judge every person on how they have lived their lives and their intentions. The Quran says that Allah is fair and merciful. He will reward more easily then punish. In the end: Some will go to Paradise (Jannah) which is described as a beautiful garden. Others will go to Hell (Jahanam) which is described as a place of fire, although they may not have to stay here for ever.

Muslims believe we each have two angels that are recording our actions and intentions all the time. They are called Ragib and Atid. On Judgement day the information in the books will help Allah decide where we go.

Other angels are involved on Judgement day -

Israfil - will blow a trumpet and all the people who have ever lived will be resurrected from their graves.

Munkar and Nakir - will ask each person some questions, such as "What is your religion?".



Christian Beliefs



All Christians agree that we will be resurrected after we die, they believe this because Jesus was resurrected and they think this is a sign of what will happen to them

Some Christians believe they will be resurrected with physical bodies. Others think they will have spiritual bodies.

All Christians agree that Heaven is the idea of a perfect place, the Bible describes Heaven as being a place where God will 'wipe every tear from your eye' and there is no more death, mourning, crying or pain there.

Some Christians think only faith in Jesus will allow you to get into Heaven. Other Christians think you will also be allowed in if you have treated people well by 'loving your neighbour'.



Christian Funerals

Last rites are given to the dying person by a priest if possible.

There is a funeral arranged, usually in a Church.

Words of Jesus are read such as 'I

am the resurrection and the life'.

Psalm 23 is read: The Lord is my Shepherd.

Christians who believe in a physical resurrection are usually

Christians who believe in a spiritual resurrection can be cremated

The priest says a final prayer for the person, using words from the Bible like' ashes to ashes, dust to dust

This sacrament is believed to give final forgiveness for all the person's sins.

The Church symbolises being in God's presence.

This reminds people of the Christian belief that believers will be resurrected as Jesus was. This Psalm reminds the friends and family of the dead person that God is looking after them.

This is so their body can be raised to life on Judgement day.

This is because these Christians believe the soul can be resurrected without the body.

This should remind people that we are all mortal (will die) and that dying is a natural part of life.



Sikh Beliefs



Sikhs believe in reincarnation. This means that a person's soul may be reborn many times as a human or an animal. Therefore, for Sikhs, death is not the end. The Sikh sacred text, the Guru Granth Sahib says that the body is just clothing for the soul and is discarded at

Sikhs believe that everything that happens is hukam - the will of Waheguru They also believe each person has a divine spark, which is part of Waheguru, in them. This will be taken back to join Waheguru when a person is finally released from the cycle of rebirth, Sikhs believe that there are 8,400,000 forms of life and that many souls have to travel though a number of these before they can reach

When something dies their soul is reborn. Only humans know the difference between right and wrong and so it is only when the soul is in a human being that there is a chance of the cycle being broken. As Sikhs believe in karma, their actions and the consequences of these actions decide whether a soul can be set loose from the cycle.

Sikh Funerals

- Sikhs cremate people, because the body is just clothing for the soul. There is no need to keep it.
- When someone is dying they try to make their last word 'Waheguru' which means the wonderful teacher that will lead me from darkness into light.
- The body is then washed and placed in a coffin, with the 5Ks which represent Sikhism.
- The coffin is taken in a coffin to the Gurdwara(temple) and placed in front to the holy book, the Guru Granth Sahib.
- Then the body is carried to be cremated.
- The Kirtan Sohalia is said, which says that a funeral is actually a wedding to God, Sikhs hope that this will be their last life before they are released from the cycle of rebirth and reach moksha. If they do not have good enough Karma, they will be born into another body.
- Prayers are sung at the Gurdwara and Langar (food) is shared.
 - Families mourn for 10 days and read the Guru Granth Sahib.





Muslim Funerals

- The body is very gently washed 3 times in the same way as is for daily prayer (wudu).
- The body is wrapped in sheets of simple white cloth to represent purity and equality.
- Burial should happen as quickly as possible, this is hygienic in hot countries, but also shows acceptance of Allah's plan to end the person's life.
- The funeral itself is simple and inexpensive, Muslims believe that they should spend money on the poor rather than expensive coffins or flowers.
- Mourning should last no more than 3 days, as it was Allah's plan for the person to die at that time. (Exceptions are made for very close family)

1. Photosynthesis in Plants

Animals need to eat food to get their energy. But green plants and algae do not. Instead they make their own food in a process called photosynthesis. Almost all life on Earth depends upon this process. Photosynthesis is also important in maintaining the levels of oxygen and carbon dioxide in the atmosphere.

Word equation

carbon dioxide + water → glucose + oxygen

from the air

from the ground

their food released into the air

Balanced symbol equation

 $6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$

4. Habitats and Ecosystems

An ecosystem consists of communities of different living things, in single species populations living in their habitats. Examples of these include habitats include coral reefs, marshes and lakes. All the living things (biotic factors) and non-living things (abiotic factors) in an ecosystem depend upon each other for survival. This interdependence includes through feeding, pollination.

6. Food Chains/Biomass

A food chain shows the different spedes of an organism in an ecosystem, and what eats what. Organisms at each level have different terms:



The population of each organism in a food chain can be shown in a bar chart called a pyramid of numbers or a pyramid of biomass where the bars are drawn to scale. Energy is lost to the surroundings as we go a *** from one level to the next, so there are usually fewer organisms at each level in this food chain.

2. Location of photosynthesis in plants

Photosynthesis takes place inside the chloroplasts of the plant cells, these contain a green pigment, chlorophyll. This absorbs the light energy needed to make photosynthesis happen. The leaf is a plant organ adapted to carry out photosynthesis. The table describes some of its adaptations:

Thin	a short distance for CO2 to move by diffusion
Chlorophyll	Absorbs light
Stomata	Allows CO2 to move in by diffusion
Guard cells	open and close the stomata depending on the conditions
Tubes	To transport water (xylem) and glucose (phloem)

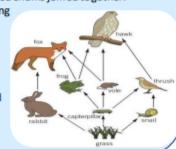
KS3 Science

Photosynthesis and Ecosystems

7. Food Webs

When all the food chains in an ecosystem are joined up together, they form a food web. Although it looks complex, it is just several food chains joined together.

This leads to some interesting effects if the population in the food web decreases. Some animals can just eat more of another organism if food is in short supply, while others may starve and die. This in turn can affect the populations of other organisms in the food web.



3. Measuring the effect of light intensity on photosynthesis

Method:

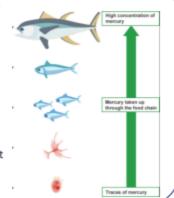
- Leave for five minutes for the pondweed to acclimatise to the new
- Count the number of bubbles given off in one minute.
- Move the light 10 cm further back.
- Leave for five minutes for the pondweed to acclimatise again.
- Count the number of bubbles given off in one minute.
- Repeat by moving the lamp a way by 10 cm intervals until 50 cm is reached.

5. Sampling Techniques

Sampling is done to look at the organisms in a population within an ecosystem in a practical way as counting each one individually is not always feasible. This is usually done using quadrats which marks off small areas to then use to estimate the population. A quadrat is usually a square made of wire. It may contain further wires to mark off smaller a reas inside, such as 5×5 squares or 10×10 squares. The organisms underneath, usually plants, can be identified and counted. Quadrats may also be used for slow-moving animals, eg slugs and snails.

8. Pollution and Pesticides

Some pollutants (including pesticides) quickly break down in the environment whilst others do not. These bio-accumulate in the food chain and damage the organisms in it. The predators at the end of the chain are most effected because compounds cannot be excreted and travel up the food chain.



Science

1. Composition of the Earth

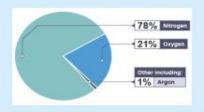
The Earth's crust, it's atmosphere and the oceans are the only sources of natural resources for human life!

The Earth has four layers:

- Crust (thin and rocky)
- Mantle (properties of solid but flows easily)
- Outer core (made from nickel and iron)
- Inner core (made from nickel and iron)

4. Composition of the Today's Atmosphere

Nitrogen is the most abundant gas in today's atmosphere at 78%. Today's atmosphere contains 21% Oxygen and 1% Argon.

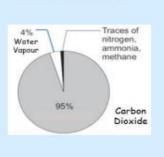


5. Fossil Fuels

About three-quarters of the electricity generated in the UK comes from power stations fuelled by fossil fuels. Energy from the burning fuel is used to boil water. The steam turns turbines, and these turn electrical generators.

2. Composition of the Early Atmosphere

The Earth's early atmosphere was composed of 95% carbon dioxide, 4% water vapour and 1% of trace gases which included Nitrogen, Ammonia and Methane.



KS3 Science
Earth & Atmosphere

6. Generating Electricity

Crude oil, coal and gas are fossil fuels. They were formed over millions of years from the remains of dead organisms. Coal was formed from dead trees and plant matter. Crude oil and gas were formed from dead marine organisms.

3. Evolution of Atmosphere

In the 4.5 billion years since the Earth formed it's atmosphere has changed considerably. This has happened in three main stages:

Water vapour CO₂



Stage 1 - Volcanoes:

The majority of the early atmosphere was carbon dioxide and water vapour. This was produced by volcanoes. After a time the water vapour condensed and formed the oceans.

Stage 2 - Green plants:

Green plants and algae evolved and used the carbon dioxide for photosynthesis. They also produced oxygen. Basic organisms evolved that were able to use the oxygen.

Stage 3- Complex animals:

The oxygen allowed more complex organisms to form. The ozone layer formed and this allowed further evolution of complex organisms.



7. Non Renewable Energy Sources

Non renewable energy sources include fossil fuels such as coal, oil and natural gas. These sources are a finite resource, which means when they have been used up, they cannot be replaced. Worryingly, humans are using them faster than they are forming!

10. Carbon Cycle

All cells - whether animal, plant or bacteria - contain carbon. Carbon is passed from the atmosphere (as carbon dioxide) to living things, passed from one organism to the next and returned to the atmosphere as carbon dioxide again. This is known as the carbon cycle.

Constitution Const

12. Carbon Cycle

Step 3: Passing carbon from one organism to next When an animal eats a plant, carbon from the plant becomes part of the fats and proteins in the animal. Microorganisms and some animals feed on waste material from animals, and the remains of dead animals and plants. The carbon then becomes part of these microorganisms and detritus feeders.

Step 4: Returning carbon dioxide to the atmosphere When fossil fuels are burned (combustion) in factories or transportation, carbon is released into the atmosphere as carbon dioxide gas.

8. Renewable Energy Sources

Scientists are trying to find alternative methods of generating electricity using renewable energy sources.

These are energy sources that will not run out or produce carbon dioxide and other greenhouse gases. They are 'cleaner' and more sustainable although they do come with advantages and disadvantages.

KS3 Science

Earth & Atmosphere

13. Greenhouse Effect

The greenhouse effect is when greenhouse gases (carbon dioxide, methane and water vapour) in the Earth's atmosphere trap radiation from the sun and heat up the planet. Without the greenhouse effect the Earth would be too cold for us to survive on it.



9. Renewable Energy Resources

Resource	Adv.	Disadv.
Wind	no CO ₂	Unsightly, not always windy
Solar	No CO ₂	Expensive, not always sunny
Hydroelectric	No CO ₂	Destroys habitat
Geothermal	No CO ₂	Specific locations

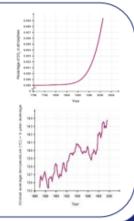
11. Carbon Cycle

Step 1: Removing carbon dioxide from atmosphere Green plants remove carbon dioxide from the atmosphere by photosynthesis. The carbon becomes part of complex molecules such as proteins, fats and carbohydrates in the plants.

Step 2: Returning carbon dioxide to atmosphere Organisms return carbon dioxide to the atmosphere by respiration. It is not just animals that respire. Plants and microorganisms do, too.

14. Global Warming

The extra greenhouse gases released by human activity lead to the enhanced greenhouse effect. More heat is trapped by the atmosphere, causing the planet to become warmer than it would be naturally. The increase in global temperature this causes is called global warming.



Science

Year 8 Block 4 Biology Knowledge Organiser Ecosystems Revision guide Pgs: 23-24 + 28

nttps://www.bbc .com/bitesize/subjects/z4882hv

KPI8.1: Describe feeding relationships and food webs, and explain how a dranging environment may affect them.

All food chains start with a green plant, producers. Arrows point to the eater and show the flow of energy in a food chain. Each stage is called a trophic level.

mahogany tree ry tree → caterpillar → song bird → hawk locust → lizard → snake



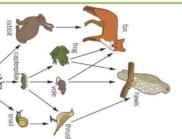
The first eater in a food chain is called the primary consumer and is a

The next organism is the secondary consumer and the next is the tertiary consumer and this is usually the top carnivore.

Food chains do not go on indefinitely as energy is lost at each stage of the food chain. Some of the available energy goes into growth and the production of offspring. This energy becomes available to the next stage, but most of the available energy is used up in other ways: in respiration, keeping warm, movement and waste materials, such as

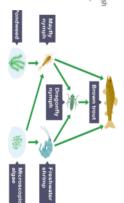
All of the energy used in these ways returns to the environment, is not available for the next stage.

Key Terms	Function
Herbivore	Organism eats plant only, prey organisms
Camivore	Organism eats other organisms, they hunt prey for their dinner
Omnivore	Organism eats both plant and animals
Primary	The first eater in a food chain
consumer	
Secondary	The second eater in a food chain
consumer	
Tertiary	The 3 rd organism feeding in the food chain, usually the
consumer	top carnivore
Trophic level	Stages in the food chain e.g producers, or primary
	consumers
Bioaccumulation	The build up of toxic substances in the food chain, affecting organisms at the top of food chains
Ecosystem	A community of interacting organisms and their physical environment
	Experimental and the second se





Removinganorganismor addinganorganismto a food chain can have big implications on other





Pyramids of number can end up odd shapes when 1 producer is large in size e.g one tree that supports lots of tiny organisms e.g.aphids.

Pyramids of biomass show more accurately what is happening to the energy in a food chain than pyramids of number do. Pyramids of biomass are always pyramid shaped.

	-
Key Terms	Definition
nterspecific competition	Competition between includuals of different species
ntraspecific competition	Competition between includuals of the <u>same</u> species
amoufaged	When an organisms blends in to their environment
Variation	Differences between organisms caused by genetics, environment or both
Continuous ariation	This variation has no limit on the valueeg, height
Discontinuous Ariation	This type of variation has set categories or alimited set of values e.g. eye colour and is caused by genetic factors
Vaturalselection	The process whereby organisms better adapted to their environment tend to survive and produce more offspring

way this drives natural selection

KPI8.2: Explain how variation allow organisms to compete, and the

Organisms compete for resources like food, water, mates, space, light,

individuals of the same species. individuals of different species and Intraspecific competition is between There are 2 types of competition. Interspecific competition is between Competition

they are camouflaged in the snow. survive in their environment. For example polar bears are white so Organisms have special features known as adaptations to help them

is a combination of genes and environment e.g. intelligence and weight. limited set of data e.g. tongue roller or nonroller Genetic variation always gives rise to discontinuous data where there is a chemicals you're exposed to , the way you're brought up. Often variation can also be caused by environment which means the food you eat, the

environmental factors.

Variation can be caused by genese.g. eye colour and your blood group. It 3)

Continuous data can be of any value and is caused by genetic and

Natural selection

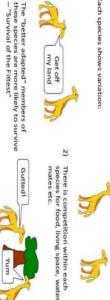
Natural selection states that there is variation within aspecies.

Some adaptations are better than others. Those with the best adaptations survive, and the others die.

The survivors can **reproduce** and have **offspring**.

Their offspring **inherit** the **genes** for the best adaptations, so the organisms **population** changes over time. This is survival of the fittest. Charles Darwin came up with this theory in the 1800's.

Natural Selection









8.7 Present tense holidays Year 8 Spanish vocab. list

¿Dónde viajas?	Where do you travel?
Viajo	I travel
Voy	I go
a París / a Londres	to Paris / to London
a Francia	to France
a España	to Spain
a Inglaterra	to England
a Escocia	to Scotland
a Irlanda	to Ireland
a Gales	to Wales
a Portugal	to Portugal
a Pakistán	to Pakistan
a Polonia	to Poland
a Somalia	to Somalia
al Caribe	to the Caribbean
al Reino Unido	to the UK
a los Estados-Unidos	to the States
a les Deless Deles	to the Notherlands

a los Países Bajos	to the Netherlands
¿Cómo viajas?	How do you travel?
a pie	by foot
en bici	by pushbike
en moto	by motorbike
en coche	by car
en tren	by train
en barco	by boat
en metro	by tube
en autocar	by coach
en autobús	by bus
en avión	by plane

¿Dónde te alojas?	Where do you stay?
Me alojo en	I stay in
un hotel (de cinco estrellas)	A (five star) hotel
un camping	A campsite
un apartamento	An appartment
una caravana	A caravan
una tienda	A tent
un albergue juvenil	A youth hostel
una caravana estática	A static caravan
en casa de mis abuelos	At my grand-parents'
un parador	A state-owned luxury
una pensión	A B&B
¿Qué visitas?	Where do you visit?
Visito	I visit

Visitamos...
la playa
la piscina
la pista de hielo
el centro
el cine
el museo
el teatro

el centro comercial el polideportivo el mercado el estadio el parque de atracciones el hospital los monumentos las tiendas

los cafés

los restaurantes

la oficina de turismo

	A caravan
	A tent
	A youth hostel
	A static caravan
	At my grand-parents'
	A state-owned luxury hotel
	A B&B
١	/here do you visit?
١	visit
	/e visit
	he beach
	he swimming pool
	he ice rink
	he town centre
	he cinema
	he museum
	he theatre
	he shopping centre
	he leisure centre
١	he market
	he stadium
	he theme park
	he hospital
	he monuments
	he shops
	he cafés
	he restaurants
	he tourist information office

Nieva

Hay viento

Hay nubes

¿Qué haces de vacaciones? Descansar	What do you do on holidays? To rest		
Divertirse (me divierto)	To have fun (I have fun)		
Tomar el sol	To sunbathe		
Visitar monumentos	To visit monuments		
Ir a la playa	To go to the beach		
Ir al restaurante To go to the restaurant			
Ir de compras To go shopping			
Dar un paseo To go for walks			
Sacar/tomar fotos To take photos			
Comprar recuerdos To buy souvenirs			
Hacer deporte To do (play) sports			
Hacer deportes acuáticos To do water sports			
Bailar en la discoteca	To dance in the disco		
¿Dónde está?	Where is?		
Está lejos	It's far		
Está cerca	It's nearby		
Está a cinco minutos	It's 5 minutes away		
Está a 300 metros	It's 300 metres away		
Siga todo recto	Go straight on		
En el semáforo siga todo recto	At the traffic lights go straight on		
En la rotonda gira a la derecha At the roundabout turn right			
Gira a la izquierda	Turn left		
Gira a la derecha	Turn right		
Tome la primera / la segunda	Take the first / second		
Cruza el puente	Cross the bridge		
¿Qúe tiempo hace?	What is the weather like?		
Hace buen tiempo	It is good weather		
Hace calor/frío	It is hot/cold		
Hace sol	It is sunny		
Hace 25 grados	It is 25 degrees		
Hace mal tiempo	It is bad weather		
Llueve	It is raining		

It is snowing

There are clouds

It is windy

8.7 Present tense holidays

Year 8 Spanish Knowledge Organiser

There are three types of verbs in Spanish and in their infinitive form they end in:

-ar -er -ir

The present tense: Depending on the pronoun, we change the ending of the verb using the table below:

Pronouns	-ar	-er	-ir
yo (I)	-0	-0	-0
tú (you)	-as	-es	-es
él (he), ella (she)	-a	-e	-e
Nosotros/nosotras (we)	-amos	-emos	-imos
Vosotros/vosotras (you) (pl)	-áis	-éis	-ís
ellos/ellas (they)	-an	-en	-en

Example:

Descans $\underline{ar} = \underline{to} \text{ rest}$ Com $\underline{er} = \underline{to} \text{ eat}$ viv $\underline{ir} = \underline{to} \text{ live}$ Descans $\underline{o} = \underline{I} \text{ rest}$ Com $\underline{emos} = \underline{we} \text{ eat}$ viv $\underline{en} = \underline{they} \text{ live}$ The present and future tenses



The Near Future:

The near future **tense** is used to express something that will be happening in the very near future. It is formed by conjugating the verb **ir** (to go) in the present tense + a + an infinitive.

Example: I'm going to travel by plane > Voy a viajar en avión.

1	English	To go (present)	"a"	Infinitive
1	I am going to go	Voy	a	ir
1	You are going to play	Vas	a	jugar
	He/she is going to visit	Va	a	visitar
	We are going to swim	Vamos	a	nadar
	You (pl.) are going to read	Vaís	a	leer
	They are going to do	Van	а	hacer

<u>Time markers</u> tell us when something happens and help us work out which tense is being used. The following can be used with the future tense.

Mañana - tomorrow

La semana próxima- next week

El fin de semana que viene - next weekend

El próximo mes - next month

El año que viene – next year

En dos años – In two years

REMEMBER!

Any practical work you do at home, take photos and this can be classed as homework if there is evidence in your homework book!

Applique is the method of sewing pieces of fabric onto other fabric bases in beautiful designs. You can stitch the applique pieces by hand as well as by sewing

machine.



Decorative Textile Techniques

Spray dying creates a speckled, graffiti effect on fabric. Try not to spray too close as it will not have the same effect on the fabric.





Dyeing involves adding colour to the fabric by way of soaking it in a solution of dye. You can dye a fabric fully or partially; Batik, tie and dye, shibori dyeing are all variations of dyeing fabric to bring about beautiful patterns on fabric surface.



Rubbings use natural textures to create interesting designs on to fabric, layer different colours to make your design more original.

Shaving foam marbling is a method of creating a marble effect, using shaving foam and acrylic paints. You can mix colours together to create a colourful design. Be careful not to overmix as this could result in to getting an all over brown colour.



Decorative stitches

are created by selecting different stitch settings on a sewing machine, these are good to use in different colours to match your creative work. They can be sewn in a curved line as well as just sewing straight.



Year 8 Textiles Knowledge Organiser



Textiles Hierarchy of Key words

Plain seam analyse sustainable embellishment Woven/bonded/knitted function Free machine develop embroidery

'Academic'

keywords

The 4 Rs of sustainability

The UK wastes around £1 billion of clothing each year, which effects the environment we live in. A way to support the environment is to follow the four Rs of sustainability at home.

Recycle - Making unwanted clothing in to something new i.e. Jeans in to shorts.

Reduce - Buy high quality clothing which will last for longer.

Repair - If there is a rip or hole in your clothing, fix it by hand sewing it or adding a patch.

Reuse - If you no long want your clothing, donate it to a sibling or local charity shop.

Complementary colours most lessons every lesson Valuable keywords contrast environment fastening embroidery compare equipment iron used in context appliqué effect improve design shape colour Basic keywords used in almost every lesson machine Texture pattern line tone theme

thread

Fabric

sew

Questions and activities – hints and tips

Summarising a lesson:

Answer the following questions to help you summarise your learning in a lesson. This will help you recap and think again about your learning, and will be useful to look back on in the future.

- What key words did you use in the lesson?
- Can you define those key words and use them in a sentence?
- What new content did you cover?
- How does this link to your previous learning?
- Can you summarise your learning into one sentence?

Revision:

If you have an assessment approaching, you could create some revision material based on your knowledge organiser.

Can you get down the key information in a spider diagram?

Can you use diagrams, pictures, symbols etc to recall your knowledge?

Knowledge quizzes:

Create a set of questions using the information from your knowledge organiser, or from your lesson.

You could make them about key words, and maybe even give multiple choice answers.

Go over the questions you keep getting wrong.

Try the questions out with those at home, or maybe your teacher could use them for their starter quiz in class.

Keyword Development:

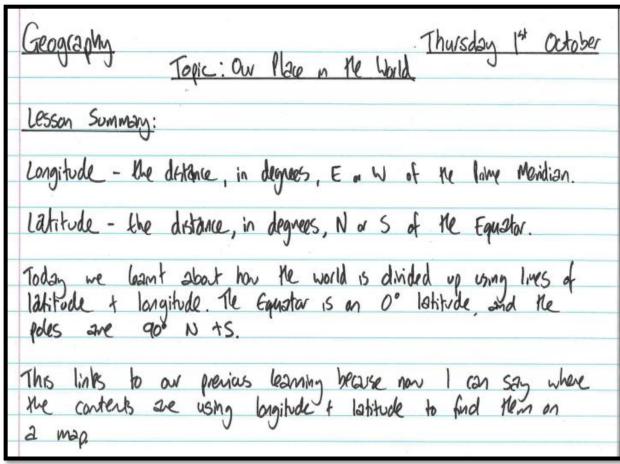
Practise the spellings of key words. Use the look-cover-write-check method to help you.

Can you explain what the key words mean?

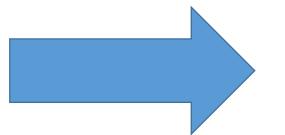
Can you link the key words together?

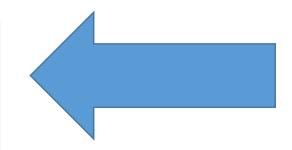
Copy out the key words with their definitions.

What might it look like?



Knowledge Quiz:

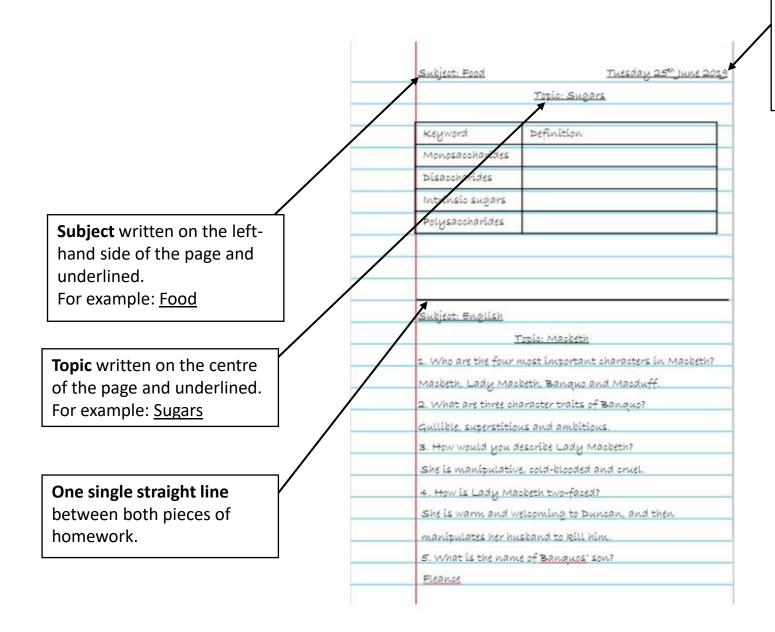




Lesson summary:

	Science
	Topic: Cells Monday 28th September
	Enavedge Oviz:
1.)	what is the name of the part of the microscope where the specimen
	13 pleced? A= Stage
2.)	Mon many all's are there in a "unicellular" organism?
	what does the 'cell membrane' do?. A = controls movement of substances in t out of the cell
4.)	where does photosynthese take place in a cell? A = Chlaroplast
5.)	Max is the function of the red blood cells? At to carry oxygen

How to present your homework:



Date written fully on the right hand side of the page and underlined – this should be the day you complete the homework.

Notes