

Monday 24 <sup>th</sup> February	Week A
Monday 3 <sup>rd</sup> March	Week B
Monday 10 <sup>th</sup> March	Week A
Monday 17 <sup>th</sup> March	Week B
Monday 24 <sup>th</sup> March	Week A
Monday 31st March	Week B

**Please note:** Maths homework will be on an online platform for this term. It will be set and checked weekly separately from the timetable.

# Knowledge Organisers 2024-25 Year 9 – Term 4

Complete your homework on the night stated e.g. if it is a Monday Week A you will complete ICT/DT

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

# **Contents**

**How to**...Pg 2-3

**Art**.....Pg 4

Computing.....Pg 5

Drama.....Pg 6

**DT**.....Pg 7

**English**.....Pg 8-9

**Food**.....Pg 10

**French**.....Pg 11-12

Geography.....Pg 13-14

**German**.....Pg 15-16

History.....Pg 17

**Maths**.....Pg 18-19

**Music.....**Pg 20-21

**PE**.....Pg 22

**RS**.....Pg 23-24

**Science**.....Pg 25-30

**Spanish.....**Pg 31-32

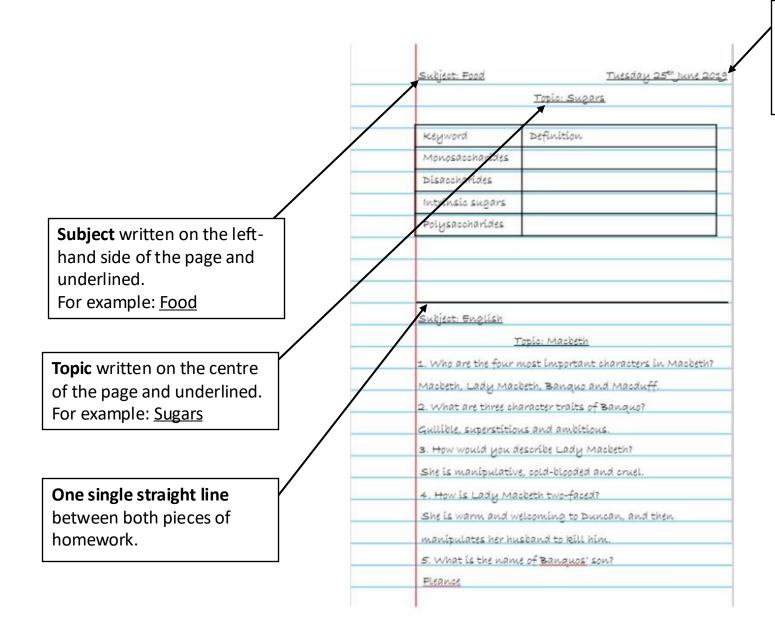
Textiles.....Pg 33

This Knowledge Organiser is to help you see the key information for each subject for this term. You can use this to help you both with homework and with revision, supporting your learning at home. In the table below you will find the instructions for each subject to be completed on the correct day.

Subject	Tasks
Maths	Homework question tasks/sets will be set weekly on an online platform. You will have one
	week to complete this online, before it is checked for competition and the next set is
	published.
Science	For term 1 this will be directed by your classroom teacher. It could involve an online platform
	too.
English	Using the separate question booklet, divide your homework book page in half length ways,
	write the questions out on the left hand side. First, attempt to answer the questions from
	memory/your own knowledge. Then use your knowledge organiser booklets to check your
	answers and fill in the missing ones.
MFL	Find the correct date in the KO and the question booklet. With the list of 10 key words for that
	week, complete the look – say - cover – write – check method in your homework
	book. Complete this process for each word/phrase 4 times each.
Geog/Hist/RS/	Same process as outlined for English above. DT and ICT/Computing have 5 questions and not
DT/Computing	10.
Music/Art	For music and art, you will have two practical tasks to complete each term for each
	subject. These will be found in the question booklets and will be checked by you classroom
	teacher.

At the back of this booklet, you will find: Sentence starters, a history chronology, DT sentence starters, a periodic table, maps of the world, subject websites, a RAG sheet and a timetable.

# How to present your homework:



Date written fully on the righthand side of the page and underlined. This should be the day you complete the homework.

# Home Learning Strategies to help you revise

# **Brain Dump**



Write down everything you know about o certain topic on a page. Use your KO to add extra notes in a different colour.

# **Mind Map**



Condense a topic showing the important links and connectors between key parts. Use your KO to add in extra notes.

# Diagram



Draw a clear diagram for a subject including labels and key features. Make sure you use correct vocabulary and spellings.

# Vocabulary



Learn the key words associated with a topic and commit the word and spelling to memory. Test yourself or ask someone else to test you.

# **Retrieval Quiz**



Write key questions about a topic as well as the answers. Use the content of the KO to help you. Check to see if you can remember the answers without looking.

# Compare



Complete a comparison table showing two different sides of a topic. Can you use it to create an argument for one viewpoint?

# **Year 9 Memento Mori**

Content: In this project you will

Knowledge—of different artists who create portraits

Understand—What inspired artists to create their work and how to write about the work

Skills—drawing, collage, painting, printing, showing the influence of other artists in your own work and presentation

**Outcomes**— Self portraits, celebrity portrait, mixed media portraits, prints, drawings, collage.





Tim Fowler- In 2018 Tim
Fowler put together a week long
performance exhibition at the
LCB Depot Gallery space. He started out with 100 blank canvases in
a 25 x 4 grid. Over the next few
days he worked day and night to
paint 100.skull paintings.





**Gemma Compton-** Gemma Compton is a Bristol-based artist and fashion designer.

Gemma Compton's vanitas paintings are contemporary works that explore the fragility and strength of life.



Damien Hirst

# Keywords

Memento Mori-(Latin for

'remember that you [have to] die') is an artistic or symbolic reminder of the inevitability of death. Some artists use **symbols** such as hourglasses and wilting flowers and skulls that signify the impermanence of human life.

Vanitas— Vanitas is a type of still life painting that conveys the fleeting nature of life and the vanity of worldly desires

**Illustration**— a drawing or picture in a book, magazine, for decoration or to explain something.

# Analysis

All artist research pages should be annotated

#### Artwork-

- Artist name
- Describe the work-what does it look like?
- Use the formal elements i.e. colour, line etc.
- What techniques/materials were used?
- What is your opinion of the work?
- How is it relevant to your own idea?

#### Sentence starters

I like/dislike the way the artist has used...because

I think the colour scheme used is effective because...

I think the artist has been inspired by...because

#### **Evaluation of Your Artwork-**

- What inspired you to create the piece?
- What techniques did you use and why?
- What does it mean to you?
- How is it relevant to your idea?





Assessment

D	Deepening Exceptional, Sophisticated, Perceptive, Imaginative, Masterful.
0+	On Track (secure)— Highly Confident, Refined, Thorough, Assured, In-Depth.
О	On Track (insecure — Competent, Sustained, Informed, Refined, Thoughtful, Detailed.
Υ	Yet to be on track— Attempted, Basic, Some, Uneven.
A	At an earlier stage — Partial, Limited, inconsistent.

# Computing: Year 9 Knowledge Organiser

# Number Bases

#### Denary

Base 10 Numbers: 23, 46, 2, 9

Binary

Base 2 Numbers: 01010101

Hexadecimal

Base 16 Numbers: 2B, FF, 5E, 88

128	64	32	16	8	4	2	1		
0	8		0	1	0	1	9	=	10
0	8	1	1	1	1	1	0	-	62
1	9	0	0	1	1	1	1	*	143
8	4	2	1	8	4	2	1		
1	0	9	0	1	1	1	1	-	143
Den	aru	- 3	8	Den	arv	- 1	5		

Hex:

# **Binary Arithmetic**

#### Rules of Addition

0 + 0 = 00 + 1 = 1

1 + 0 = 1

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

				1	1	1		
	0	0	0	0	1	1	1	0
+	1	0	1	0	0	0	1	0
	1	0	1	1	0	0	0	0

# Data Types

# String

Any amount of letters or numbers Example: "Computing is ace x 1000"

# Boolean

Only two choices

Example: True or False

# Integer

A whole number Example: 4, 0, -7

# Real/Float

A decimal number Example: 3.14

# Character Sets

#### ASCII

7 bit ASCII used to represent 128 characters in binary. Only enough for English language.

#### Extended ASCII

8 bit ASCII used to represent 256 characters in binary. Still only enough for English language.

#### Unicode

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

$$A = 65$$
,  $Z = 90$ ,  $a = 97$ ,  $z = 122$ , [SPACE] = 32

Character Set: A group of characters a computer can use.

# Storage Units

+4	1	Bit		
+2	1	Nibble	1	×4
+1000	1	Byte	1	x2
+1000	1	Kilobyte	1	×1000
+1000	1	Megabyte	1	×1000
+1000	1	Gigabyte	1	×1000
+1000	1	Terabyte	1	×1000
	750	Petabyte	1	×1000

# **Data Compression**

# Why:

Used to reduce data file sizes. Compression methods can be used with text, sound, images and videos.

Lossy - Loses quality

Lossless - DOES NOT lose quality

# Representing Images

Pixel - Small dot on of colour on an image Resolution - Amount of pixels on an image Colour/Bit Depth - Amount of bits in each pixel (amounts of colours available)

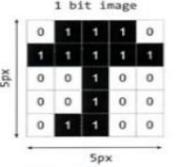
# Factors that affect the quality and file

Increasing resolution and colour depth means the quality will improve. It also means the file size will increase.

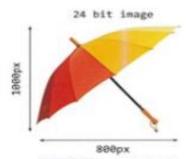
# Working out file size:

File size (bits) = Resolution x Bit Depth

.jpeg	-	Image	File
.png	-	Image	File
.tiff	-	Image	File
.pdf	-	Image	File
.mp3	-	Sound	File
.acc	-	Sound	File
.mp4	-	Video	File
.mov	-	Video	File
.doc	-	Text	File
.txt	-	Text	File







File Size: 192000 bits

Variables

A memory location where values are stored. These values can change as a program is run

Examples: name="Bristol" age=14 pet="Cat"

# Year 9 Drama Knowledge Organiser. Make sure when you rehearse and perform your devised piece, you include the following skills and techniques:

# **Physical Skills**

Body language
Interaction
Posture
Gait
Gesture
Spatial awareness
Proxemics
Control
Mannerisms
Facial expressions
Eye focus / contact
Energy
Stage presence

Characterisation

**Blocking**: the precise movement and positioning of actors on a stage

# Vocal Skills

Volume
Diction
Emphasis
Accent
Intonation
Inflection
Emotional tone
Pitch
Pace
Pause

# You can include:

Levels, mime, slow motion, direct address, flash back, flash forward, improvisation, silence, pause

# Teamwork

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

- turn up on time
- be positive
- accept ideas
- respect other opinions

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.

# The final stages of the process

Run through the piece for an audience that understand its importance.

- get rid of things that don't work
- run the piece with any technical aspects(projection and sound)
- test sound levels and sightlines

# Then ask for honest feedback and act on it.

- Does it make sense if it needs to?
- Have the initial aims and objectives been met?
- Is the desired message being received clearly?
- Is the pace appropriate?
- Is it running smoothly?
- Has everyone learned what happens, when and where?

Be prepared to make mistakes and be resilient enough to carry on, but most importantly, enjoy performing.

# Year 9 D&T - Pewter Project

# What is pewter?

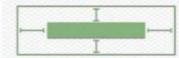
- Pewter is a malleable metal alloy consisting of tin, antimony, copper, bismuth, and sometimes silver. Modern pewter consists of are 94% tin.
- Pewter has a low melting point (around 170-230 °C) making it ideal for melting on a chip forge and brazing hearth and casting

# **Elements of Design**



A line is a mark between two points. There are various types of lines, from straight to squiggly to curved and more.





Space is the area around or between elements in a design. It can be used to separate or group elements



Height + width = shape. There are three basic shapes: Geometric (triangles, squares, circles etc), natural (leaves, animals, trees, people) and abstract (see image)





Texture relates to the surface of an object; the look or feel. Concrete is rough; metal is smooth.

# 2D Design Basic Tools





CIRCLE - This tool creates circle shapes. Click to start the circle, extend to the size needed and click to finish.

PATH - This tool creates curved lines through continual clicks.

RECTANGLE - This tool can be used to create both rectangular and square shapes.

TEXT - Use this tool to insert text onto your designs. The font, size and direction of the text can be changed.

DEL DELETE PART - Use this tool to delete separate lines and objects.

DEL DELETE ANY - Use this tool to delete whole lines and ANY objects.

# Computer aided design (CAD)

Computer aided design now has the capability to design new products in 3D, visualise them in a variety of materials and send images around the world for collaboration and consultation. Once production is finalised, these designs are sent to computer aided manufacture (CAM) machines to be formed. Autodesk and Solidworks are common forms of CAD software used.

Advantages of CAD	Disadvantages of CAD
Ideas can be drawn and developed quickly	Expensive to set up
Designs can be viewed from all angles and with a range of materials	Needs a skilled workforce
Some testing and consumer feedback can be done before costly production takes place	Difficult to keep up with constantly changing and improving technology

# Isometric Drawing Shows Objects at 30°

- 1) Isometric drawing can be used to show a 30 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 increation

Vertical edges are drawn as vertical less Hortzerital edales are grown at 50° Flaradel edgen appear an parallel lines

sometric det paper

# Crating Can Be Used to Draw 3D Shapes

Crating is where you start by drawing a box — the 'crate' — and gradually add bits on and take bits off till you get the right shape. For example, you can remove sections from a cuboid to make any other 3D shape.



- 1) When you're sketching a 3D object, it's easier if you imagine it as a basic shape-2) First draw the basic peometric shape faintly
- 3) Stick to a particular drawing technique inometric drawing, for example.
- The object can then be drawn within the box 5) Details of the object can be added by drawing
- more geometric shapes on top.

#### What is an Alloy?

Definition: A metal alloy is a substance that combines more than one metal or mixes a metal with other non-metallic elements.

Example

Iron + Carbon = Steel

Copper + zinc = Brass

What other alloys can you think of?

#### Malleable

Definition: A material that can be hammered or pressed into shape without breaking or cracking.

# Computer aided manufacture (CAM)

By using Computer aided manufacture, designs can be sent to CAM machines such as laser cutters, 3D printers and milling machines.

Advantages of CAM	Disadvantages of CAM
Fast and accurate production	Expensive to set up
Machines can run constantly on repetitive tasks	Needs a skilled workforce of engineers

# **Unit 2: Science Fiction**

#### H.G. Wells (1866-1946)

'The Shakespeare of Science Fiction.'
Time Machine was his 1st Novel
He was a scientific journalist/sociologist/
developed interest in political reform later. He
wanted the world to become 1 state.
Draper. Teacher. Lecturer.

#### The War of The Worlds

can be seen as a **criticism of the British Empire**, particularly with regards to the Tasmanians who were wiped out by European colonialists.

#### Sci-Fi

Science fiction speculates about alternative ways of life made possible by technological change, and hence has sometimes been called "speculative fiction."

#### What factors led to the formation of the sci-fi genre?

Mary Shelley – the mother of science fiction – wrote arguably one of the first Sci Fi novels, 'Frankenstein', in 1818. One of the narrators, Dr Frankenstein, is a scientist who brings a monster to life by using electricity, recently invented.

The rise of the sci-fi genre evolved in the C19th due to new technological innovations caused by the Industrial Revolution and an increased awareness of science – most notably electricity, inoculation and blood transfusions.

Sci-Fi elements

- Time travel.
- Teleportation.
- Mind control, telepathy, and telekinesis.
- Aliens, extraterrestrial lifeforms, and mutants.
- Space travel and exploration.
- Interplanetary warfare.
- Parallel universes.
- Fictional worlds.



# Keywords

#### Keywords:

Prescient - having or showing knowledge of events before they take place.

Scrutinise - examine or inspect closely and thoroughly.

Complacent - showing smug or <u>uncritical</u> satisfaction with <u>oneself</u> or one's achievements.

Terrestrial - on or relating to the earth.

Inferior - lower in rank, status, or quality.

Superior - higher in rank, status, or quality.

Imperialism - when one country exercises power over another through various methods of control.

Missionary - a person sent on a religious mission, especially one sent to promote Christianity in a foreign country.

Perish - die, especially in a violent or sudden way.

Disillusionment - a feeling
of <u>disappointment</u> resulting from the
discovery that something is not as good as
one believed it to be.

Apocalyptic - describing the complete destruction of the world.

Optimistic - thinks the best possible thing will happen and hopes for it even if it's not likely.

# SPAG

A semi-colon (;) is used to separate two main clauses (sentences). It replaces conjunctions such as and <u>AND</u> but.

Example:

The teacher joked; the pupil laughed.

# Tier 3 vocabulary

Connotation: a feeling, idea or image a word evokes.

Foreshadowing: clues provided by the writer to pre-empt an event.

Juxtaposition: contrast which occurs in close proximity (within a small space)

Motif: a repeated symbol

Pathetic fallacy: the use of weather to indicate mood/a means for foreshadowing.

Tension/suspense: a feeling of anxiety a character or reader experiences in anticipation of an event.

Rhetoric: the art of effective or persuasive speaking or writing, especially the exploitation of figures of speech and other compositional techniques.

Narrator: a person

who narrates something, especially a character who recounts the events of a novel or narrative poem.

Unreliable Narrator: any narrator who misleads readers, either deliberately or unwittingly.

Allusion: an expression designed to call something to mind without mentioning it explicitly; an indirect or passing reference.

Science Fiction: fiction based on imagined future scientific or technological advances and major social or environmental changes, frequently portraying space or time travel and life on other planets.

# Tier 2 vocabulary

Extra-terrestrial: (noun) life from outside of earth

Futuristic: (adjective) of or having to do with the future, futurism, or futurology

Imperialism: when one country exercises power over another through various methods of control.

**Exploitation**: the action or fact of treating someone unfairly in order to benefit from their work

Exodus: a mass departure of people.

**Evolution**: the process by which new species or populations of living things develop from preexisting forms through successive generations.

Oppression: a situation in which people are governed in an unfair and cruel way and prevented from having opportunities and freedom.

Authority: a person or organization having political or administrative power and control.

Ethical: relating to moral principles or the branch of knowledge dealing with these.

Colonialism: a practice or policy of control by one people or power over other people or areas, often by establishing colonies and generally with the aim of economic dominance.

Savage: fierce, ferocious, or cruel; untamed.

Civilised: having a high state of culture and social development

# Unit 2: Science Fiction

# Poetic terms

# Conventions of a speech

# Example of opening of a speech:

#### Poetry:

Us Zaffar Kunia - describes the ways that the word us means both separation and unity and how that gap could be bridged.

An Address to Potential Aliens John Hegley questioning the possibility of extraterrestrial life.

You laughed and laughed and laughed Gabrile Okara - the colonizer's mockery and contemptuous disparagement of indigenous African culture and worldview are confronted and ultimately silenced by the warmth of the native's 'fire' laughter."

A Vision Simon Armitage - an elevated and beautiful description of the ideal civic life, subverted by the final revelation that the "Cities like dreams", which these models encapsulate, are "now fully extinct".

# Themes

Warfare and fear. The Martians' weaponry was one of HG Wells' predictions for the

future of warfare. Wells also predicted chemical warfare and robots.

Imperialism. The Martian's invasion of earth mirrors the British Empire.

# Destruction of

civilisation/social Darwinism. 'War of the Worlds' explores this theory by suggesting that all humanity, regardless of strength or social class, suffers under the Martians' rule. Wells forces his readers to revise their view of humanity's place in the universe.

Meaning - the main message of the poem

Speaker – the voice of the poem.

Imagery - the words which paint images in the reader's mind.

Simile - indirect comparison (like/as)

Metaphor - direct comparison

Personification – when a non-living object is described as looking like or behaving like

Tone - the feeling/atmosphere of the

Structure - the organisation of the poem, its rhyme scheme, the rhythm.

Stanza – grouped lines in a poem

Form - the type of poem - i.e. sonnet,

Caesura - punctuation which occurs midline; slows the rhythm.

Eniambment - lack of terminal punctuation, speeding up the poem.

End-stopping - punctuation at the end of a

Metre - number of beats per line

Plosive - sound made by stopping airflow b,t,k, d, p; it creates a harsh sound.

Onomatopoeia – a word which sounds like the thing it is describing - i.e. bang

Alliteration – the repetition of the same

Sibilance - the repetition of the 's' sound

Writing Core Task:

Write a speech to the leader of an alien race and their followers to convince them not to colonise Earth.

- Vocabulary and word power
- Organised response
- Developing Detail

#### Conventions of a speech

Rhetorical question – a

question posed to an audience, to which the speaker predicts the answer and gains support from the audience by asking.

Rule of three - Grouping words or ideas in threes makes them memorable and persuasive.

Emotive Language - Language that appeals to the emotions.

Hyperbole - Using exaggeration for effect.

Anecdote - Using real life examples to support your argument.

Personal pronouns - Using 'we', 'l', 'you' to make your audience feel included.

# Is Spaceflight Colonialism?

Fifty years after Apollo 11, it's time to revisit the laws of space.

As Americans celebrate the monumental semi-centennial of the Apollo 11 landing. the commemorations should also invite reflection on the troubled history of spaceflight and the laws that govern it.

We choose to go to the Moon We choose to go to the Moon speech by John F. Kennedy September 12th 1962.

We meet at a college noted for knowledge, in a city noted for progress, in a state noted for strength, and we stand in need of all three, for we meet in an hour of change and challenge, in a decade of hope and fear, in an age of both knowledge and ignorance. The greater our knowledge increases, the greater our ignorance unfolds.

Despite the striking fact that most of the scientists that the world has ever known are alive and working today, despite the fact that this Nation's own scientific manpower is doubling every 12 years in a rate of growth more than three times that of our population as a whole, despite that, the vast stretches of the unknown and the unanswered and the unfinished still far outstrip our collective comprehension.



# What do we need proteins for?

Build enzymes and hormones

Fu

nc

tio

ns

SS

ie

- Build cell membranes
- Repair and maintain tissues
- Defend the body (antibodies)
- Secondary source of energy

#### What happens if we have too much or too little?

Ex Kidney and liver diseases

Weight gain

De Kwashiorkor fic

Slowing growth rate

Swelling

# Protein alternatives

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







Beans, lentils, chickpeas

#### What do we need carbohydrates for?

Primary source of energy nc

Store energy for later

tio Build DNA

ns · Prevent the body from using proteins as an energy source

#### What happens if we have too much or too little?

Tooth decay Ex

Type 2 diabetes ce

Weight gain and obesity

Hyperglycaemia

De fic

ie

nc

tio

little?

Ex

ce

SS

De

fici

en

cy

chunks

Textured

vegetable

Weight loss

Lack of energy, tiredness

Severe weakness

Hypoglycaemia

#### Proteins can denature when:



They are heated

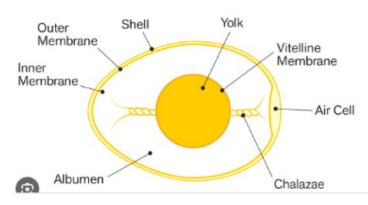




They come into contact with acidic/alkaline ingredients



Proteins unravel becoming firm when heated



They are whisked, beaten or kneaded

https://www.ifst.org/lovefoodlovescience/resources/carbohydrates-gelatinisation https://www.ifst.org/lovefoodlovescience/resources/fats-and-oils-aeration https://www.ifst.org/lovefoodlovescience/resources/fats-and-oils-plasticity

#### What do we need fats for?

Fu Source of energy nc

Insulation

Obesity

Hypertension

· Fatty liver disease

Type 2 diabetes

Dissolve vitamins

Build hormones

Build cell membranes

What happens if we have too much or too

Coronary heart disease

Weight loss

Heart disease

There are two different types of fats

Feeling cold

Vitamin deficiency

Visible fats

Fats you can see. such as on meat are often saturated.



Unsaturated fats vou cannot see. such as in nuts and avocados. They are often good for the brain.



Cream

Saturated

Olive oil

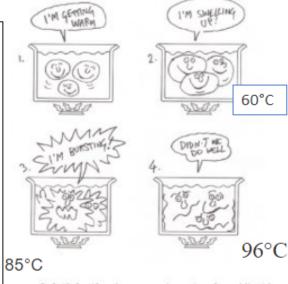
Unsaturated

Avocado

# The food science bit!

Thickening sauces with starches.

- Gelatinisation happens when a starch and liquid mixture are heated.
- The water enters the starch granules and they swell and change texture.
- As more water is taken in. the granules expand, and the mixture becomes viscous and thick.
- This results in a gel which thickens sauces by the process of gelatinisation.



Gelatinisation happens when starch and liquid such as water are heated together.

# 9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs



The present tense	ER verb	IR verb	RE verb
Je (I)	-e	-is	-S
tu (you)	-es	-is	-S
II/EIIe/On (he/she/one)	е	-it	-
Nous (we)	-ons	-issons	-ons
Vous (you all)	-ez	-issez	- ez
Ils /Elles (they)	-ent	-issent	-ent

# The future tense in French

You can talk about the future by using the near future tense.

Use part of the verb ALLER and the infinitive to say what you are going to do.

Ce soir, je vais jouer au tennis. This evening I am going to play tennis. Demain, Paul va faire un gâteau. Tomorrow Paul is going to make a cake.

You can also use the following phrases with an infinitive to refer to the future.

Je veux= I want

Je voudrais = I would like

J'aimerais = I would like

*J'espère = I hope* 

J'ai l'intention de = I intend / I am planning

# Adjectives describe nouns e.g., a <u>black</u> blazer.

In French, adjectives normally go after the words they are describing e.g., une chemise bleue (a blue shirt) and they must agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes is feminine, the adjective must be feminine e.g., une veste noire (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g., les chaussettes noires (black socks).

# **Comparatives** - to express more or less than

... est plus + adjective + que - is more...adjective...than

... est moins + adjective + que - is less...adjective... than

... est aussi + adjective + que - is as...adjective...as

# For example:

L'anglais est plus intéressant que la géographie. (English is more interesting than Geography)

L'histoire est moins amusant que l'E.P.S. (History is less fun than PE)

Le français est aussi difficile que les maths. (French is as difficult as maths).

# 9.11 My School Life – Vocabulary List

Les matières	School subjects
L'anglais	English
L'espagnol	Spanish
Le français	French
Le théâtre	Drama
Le dessin	Art
Le sport / l'EPS	PE
L'informatique	Computer Science
L'éducation civique	PSHE
La technologie	Technology
Les mathématiques	Maths
Les sciences	Science
Les sciences humaines	Humanities

Quelles sont les règles?	What are the rules?
On doit / On ne doit pas	You must / You must not
On peut / On ne peut pas	You can / You can not
II faut	You must
Il est interdit de/d'	It is forbidden to
Écouter en classe	(to) listen in class
Utiliser son portable	(to) use your phone in class
Porter des bijoux	(to) wear jewellery
Porter du maquillage	(to) wear make-up
Porter des baskets	(to) wear trainers
Manquer les cours	(to) miss lessons
Être à l'heure	(to) be on time
Mâcher du chewing-gum	(to) chew chewing-gum
Faire ses devoirs	(to) do homework

Qu'est-ce que tu en penses?	What do you think of it?
C'est/Ce n'est pas	It is/It is not
Intéressant (e)	Interesting
Pratique	Practical
Utile/inutile	Useful/not useful
Facile/Difficile	Easy/difficult
Ennuyeux (se) /barbant (e)	Boring
Passionnant (e)	Exciting
Créatif (ve)	Creative
Important (e)	Important
Trop	Тоо
Très	Very
Assez	Quite
Un peu	A bit (a little)

Qu'est-ce que tu voudrais faire	What would you like to do in the
dans le futur?	future?
Je vais	I am going
Je voudrais/J'aimerais	I would like
Réussir mes examens	To pass my exams
Recevoir des bonnes notes	To get good results
Faire un apprentissage	To do an apprenticeship
Chercher du travail	To search for a job
Faire du bénévolat	To do voluntary work
Voyager autour du monde	To travel the world
Avoir des enfants	To have children
me marier	To marry
Apprendre à conduire	To learn to drive
Devenir	To become
Médecin/Veterinaire	A doctor/a vet
Professeur/Avocat(e)	A teacher/a lawyer
Mécanicien(ne)/Plombier(ière)	A mechanic/a plumber
Pompier (ière)	A firefighter
Coiffeur(euse)	A hairdresser

Comment est ton	What is your school
uniforme scolaire?	uniform like?
Je porte	l wear
ູ II faut porter	You must wear
Une veste/ un blazer	A blazer/jacket
∬Un pull	A jumper
Une chemise	A shirt
Un t-shirt	A t-shirt
Une cravate	A tie
	A skirt
Des chaussettes	Socks
Un pantalon	Trousers
Des chaussures	Shoes
Un collant	Tights
Un hijab	Hijab
Moche	Ugly
Beau/belle	Beautiful
(In)confortable	(un)comfortable
Cher	Expensive
Pas cher/bon marché	Not expensive/cheap
À la mode	Fashionable
Démodé(e)	Old-fashioned
l - :	The selection

La journée scolaire	The school day	
Je quitte la maison	I leave the house	
Je vais au collège	I go to school	
Les cours commencent à	Lessons start at	
Les cours terminent à	Lessons end at	
Ça dure	It lasts	
La récréation	Breaktime	
L'heure du déjeuner	Lunchtime	
Le matin	The morning	
L'après-midi	The afternoon	
Le soir	The evening	
Un élève	A pupil	
Un prof	A teacher	

# Can you make a decision?

understanding and justify your opinions. about developing your ability to process information, apply your own Decision making is a key skill in geography - and in life! This theme is all

# Key Geographical Words

Stakeholders Individuals or groups of people interested or invested in something

Sustainability When something can continue into the future with little or no change / impact

Social Relating to people and/or society

Economic Relating to money and/or the economy of a place

Environmental Relating to the natural surroundings of a place or the world's natural environment

Geographical Information Systems – layers of numerical data over spatial maps

When a river overflows its banks, or the sea level rises and causes water to go

where it would not normally be

Renewable Energy Energy and power from sources that will not run out e.g. solar, wind, hydroelectric

# Understanding the Issue



In order to make good decisions you have to be wellinformed

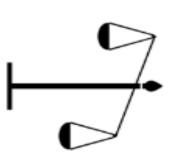
> conducting investigations. information gathering and spend a lot of time This is why geographers

important as it helps you find a solution understand the issue. This is have, the better you will The more information you

> helpful to: When presented with information it is

- have in front of you Skim read it and assess what you
- Choose sections to read thoroughly
- what it tells you Organise the information based on

# Assessing the options



goes against each option up the evidence that supports or solutions, it is important to weigh When presented with options or

table layout

This can easily be done using a

to make the final decision Sometimes applying a score help

	99	ļ		_
I	ω	2	_	
I				+
I				Score /10

# Writing a response



The written response needs to include:

- Your decision (first sentence/paragraph)
- Supporting evidence
- Reasons for dismissing alternative options

Write in well-structured paragraphs

Point – make a statement

Evidence – use data / evidence to support your point

Link – back to other points and your choice Explain – demonstrate your geographical understanding of the issue

# The Northwest Passage



#### What:

- A sea route connecting the Atlantic and Pacific Oceans.
- Usually impassable due to sea ice.
- Has been passable recently due to melting sea ice

# Why:

- Due to climate change, the sea ice has melted allowing ships to pass through
- There are both human and physical causes of climate change (see table)

**Ocean acidification** – a change in properties of ocean water that can be harmful for plants and animals.

The ocean is becoming more acidic as its water absorbs carbon dioxide from the atmosphere. (see the carbon cycle)

**30%** - how much more acidic the ocean has become in the past 100-200 years.

Biodiversity - the variety of plant and animal life in a particular habitat.

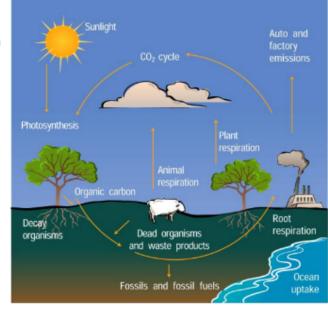
#### **IMPACTS OF ACIDIFICATION**

**Fish** - the pH of blood in the fish changes due to the lower pH in the ocean. (acidosis)

Plants and algae – lots of species thrive in more acidic conditions. Algae needed to build coral reefs does not do so well.

Osyters, mussels etc. – struggle to build their shells in more acidic water conditions.

Coral reefs – can limit and slow growth of new coral. By 2080 oceans will be so acidic that health coral will be eroding quicker than being built.



The Carbon Cycle

Human	Physical
<b>Agriculture</b> – methane (greenhouse gas) released from rice cultivation and cattle.	<b>Volcanoes</b> – big eruptions can change the earths climate. The material released can prevent solar energy reaching the earth.
<b>Deforestation</b> – carbon stored in trees is released when the tree is burnt or cut down and rots. Every year, estimate of 1.5 billion tonnes of carbon dioxide released from deforestation.	<b>Orbital Theory</b> – over long timescales the earth's orbit changes around the sun, sometimes oval and sometimes oval. The angle of tilt of the axis also changes, and wobbles. This changes the amount and place of sunlight arriving at the earth's surface.
<b>Fossil Fuels</b> – burning coal, oil and gas releases pollutants and greenhouse gases into the atmosphere.	Ocean currents – Due to ice melting, the ocean is absorbing more solar radiation and thus getting warmer.

Year 9 Geography
Oceans (2)

# Was ist dein Lieblingsfach?

Englisch Spanisch Französisch Theater Kunst

Sport

Informatik

Musik Technologie

Erdkunde Geschichte

Religion Mathe/Mathematik

Naturwissenschaften

Deutsch

# Wie findest du?

Es ist

interessant praktisch nützlich

nutzlos

einfach

schwierig langweilig

spannend

kreativ wichtg

zu sehr ziemlich



# **Favourite Subject.**

**English** Spanish French Drama

Art

PE

Computer Science

Music Technology Geography History RE

Maths Science German

# What do think about?

It is

Interesting Practical Useful Useless Easy Difficult Boring Exciting Creative Important

Too

Verv

Quite

# 9.11 My school – vocab. list

# Beschreib deine Schuluniform

# Ich trage

eine Jacke/einen Blazer einen Pullover ein Hemd ein T-Shirt eine Krawatte/einen Schlips

einen Rock Socken eine Hose

Schuhe Strumpfhose

hässlich

schön (un )bequem

teuer billig modisch altmodisch

# Describe your school uniform

# I wear...

Blazer Jumper Shirt

T-shirt Tie

Skirt Socks

Trousers Shoes

Tights

Ugly Pretty

(un) comfortable

Expensive Cheap Fashionable

Unfashionable

# **Der Schultag**

Ich verlasse die Schule Ich gehe zur Schule Die Stunden beginnen Die Schule ist...zu Ende Es dauert

Die Pause Die Mittagspause Morgens Nachmittags

# The school day

I leave home I go to school Lessons start... School ends... It lasts... Break Lunch break In the morning In the afternoon

# Was sind die Schulregeln?

Man darf(nicht) Man kann (nicht)

Man muss

Es ist verboten

Im Unterricht zuhören Ein Handy im Klassenzimmer haben

Schmuck tragen

Make -up tragen Sportschuhe tragen Unterricht verpassen

pünktlich sein Kaugummi kauen

Hausaufgaben machen

# What are the rules?

You are allowed You can('t)

You must

It is forbidden

To listen in class

To have a phone in class

To wear jewellery

To wear make up

To wear trainers

To miss lessons

To be on time

To chew gum

To do homework

# Was möchtest du in der Zukunft machen?

Ich möchte......

Prüfungen bestehen gute Noten haben eine Lehre machen einen Job suchen

freiwillig arbeiten

reisen

Kinder haben heiraten

fahren lernen

Arzt(-in) Lehrer (in)

Rechtsanwalt (in) Mechaniker (in)

Klempner

Feuerwehrmann/frau

Tierarzt(in)

Friseur/Friseuse

# What do you want to do in the future?

I would like.....

To pass my exams To get good grades

To do an apprenticeship

To look for a job

To work as a volunteer

To travel

To have children

To get married

To learn how to drive

Doctor Teacher Lawyer Mechanic

Plumber Firefighter

Vet

Hairdresser

# 9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs



infinitives	machen	können	RE verb
ich(I)	mache	kann	lerne
du (you)	machst	kannst	lernst
er/sie/man (he/she/ one)	macht	kann	lernt
Wir (we)	machen	können	lernen
ihr (you all)	macht	könnt	lernt
Sie (you) /sie (they)	machen	können	lernen

# The future tense in German

You can talk about the future by using the present tense + a future time phrase or use the future tense which is:-

Use part of the verb werden and the infinitive to say what you are going to do/will do

Heute abend spiele ich Tennis. This evening I am going to play tennis. Morgen wird Paul Kuchen essen. Tomorrow Paul will eat cake.

You can also use the following phrases with an infinitive to refer to the future. Ich will= I want Ich möchte = I would like

# Adjectives describe nouns e.g., a black blazer.

In German, adjectives go before the words they are describing e.g., eine blaue Krawatte (a blue tie) and they must agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes masculine, the adjective must be masculine e.g., einen schwarzen Blazer (a black blazer).

If the noun is plural, the adjective will be plural as well e.g., schwarze Socken (black socks).

# Comparatives – to express more or less than

Add 'er' to the adjective, but in words of more than 1 syllable an umlaut is sometimes added too. You must also add als = than

klein = kleiner(smaller) lang = länger

wichtig = wichtiger (more important)

Mathe ist interessanter als Deutsch

mehr = more/weniger = fewer/besser = better

#### Context

Between 1933 and 1939, after Adolf Hitler and the Nazi's came to power in 1933, Jewish people in Germany faced terrible discrimination and prejudice and some were killed. During WW2 (1939-45) the mass killing of approximately six million Jewish people across Europe occurred.

# **Key Events**

1	30 <sup>th</sup> January 1933 – Hitler became Chancellor of Germany.	
2	22 <sup>nd</sup> March 1933 – The first concentration camp opened in Germany – Dachau.	
3	1st April 1933 – The Nazi's organised a boycott of Jewish businesses.	
4	16 <sup>th</sup> September 1935 – The Nuremburg Laws were passed.	
5	5 <sup>th</sup> October 1938 – Jewish people have to hand in their passports and they are stamped with the letter J.	
6	9 <sup>th</sup> and 10 <sup>th</sup> November 1938 – Kristallnacht – A night of violence when Jewish shops and synagogues were attacked.	
7	15 <sup>th</sup> November 1938 – All Jewish children are expelled from schools.	
8	December 1938 – The first Kindertransport arrived in Britain.	
9	1st September 1939 – Germany invaded Poland. WW2 began.	
10	22 <sup>nd</sup> June 1941 – Germany invaded the USSR.	
11	8 <sup>th</sup> December 1941 – The first death camp, Chelmno, begins operation.	
12	2 20 <sup>th</sup> January 1942 - The Wannsee Conference - meeting where leading Nazi's decided to deport all European Jews to death camps.	
13	April-May 1943 – The Warsaw ghetto uprising.	
14	7 <sup>th</sup> May 1945 – Germany surrendered to Britain and France.	
15	9 <sup>th</sup> May 1945 – Germany surrendered to the USSR.	

# History – Year 9 Knowledge

Knowledge Organiser Term 4

How and why was the Holocaust possible?

# <u>Topic</u>

16	Holocaust	The planned attempt by the Nazi regime and its collaborators in Nazi-occupied Europe to annihilate the "entire" Jewish people, following the Nazi invasion of Russia in 1941.
----	-----------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

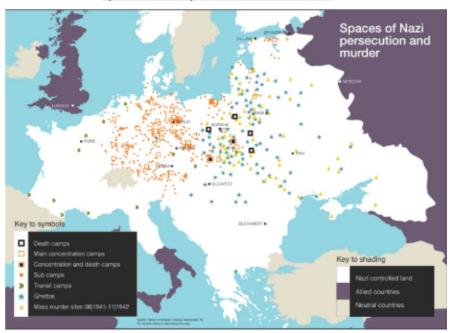
# Historical Skills

Use of sources	Content: What does the source tells us? Nature: What type of source is it? Origin: Who made the source? When? Where? Purpose: Why was the source created?
Interpretations	To understand different opinions from Historians and consider the reasons for their opinions.

#### Key Terms

_					
	17	Antisemitism	Prejudice, discrimination or persecution against Jews.		
	19	Concentration Camp	Prison camp to which the Nazis sent Jews, their opponents and other people they considered undesirable.		
	20	Death Camp	Killing centres established by the Nazis in Central Europe during WW2.		
	21	Einsatzgruppen	The killing squads who followed the army into Poland and Russia following the invasions of these countries.		
	22	Genocide	The deliberate and systematic attempt to exterminate a whole race of people.		
	23	Ghetto	An area of a city into which the local Jewish population was forcibly packed and forced to stay in increasingly appalling conditions.		

# Spaces of Nazi persecution and murder



#### Substitution

Evaluate (find the value of) the expressions, given that:

$$a = 2, b = 3, c = -5$$

 $4b = 4 \times 2 = 8$ 

Note - Always use the correct order of operations

- $7b 3c = (7 \times 3) (3 \times -5) = 21 -15 = 21 + 15 = 36$
- $5b^2 + 1 = 5 \times (3)^2 + 1 = 5 \times 9 + 1 = 45 + 1 = 46$
- $2c^3 = 2 \times (-5)^3 = 2 \times -125 = -250$
- $\frac{3ac}{2h} = \frac{3 \times 2 \times -5}{2 \times 3} = \frac{-30}{6} = -5$

For fractions work out the numerator and denominator separately first

Inequalities show the range of numbers that satisfy a rule.

- x < 2 means x is less than 2
- $x \le 2$  means x is less than or equal to 2
- x > 2 means x is greater than 2
- $x \ge 2$  means x is greater than or equal to 2

The list of integers for  $-2 < x \le 1$  is -1, 0, 1.

Check the symbols carefully, if they have the line underneath they include the end value.











Not equal to  $\neq$ 

An open circle means that the value is not included: x > 2 x is greater than ?

The arrow points in the same direction as the inequality.

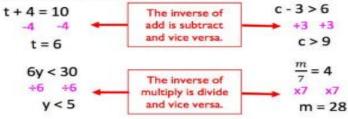
A filled in circle means that the value is included: x ≥ 3 | x is greater than or equal to 2 If x is between two values, use two circles:



x is greater than 1, but less than or equal to 6.

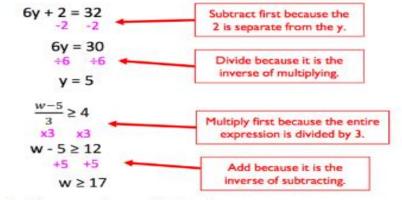
# Solving one step equations/inequalities

To solve any equation or inequality we need to do the inverse of the operation that we see.



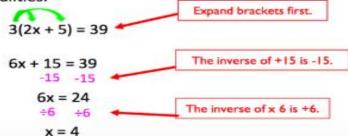
# Solving two step equations/inequalities

To solve a two step equation or inequality we need to complete 2 inverse calculations in a specific order.



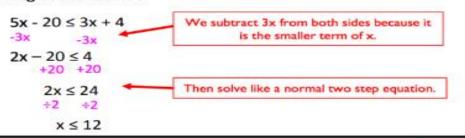
# Solving equations with brackets

We must expand the bracket first and then solve by doing the inverse of the operations. We use the same method for inequalities.



# Solving with unknowns on both sides

To solve an equation or inequality with unknowns on both sides we need to collect all of the same terms together, still by looking at the inverse.



$$2x - 10 = 5x + 2$$
 $-2x$ 
 $-2x$ 
 $-10 = 3x + 2$ 
 $-2$ 
 $-12 = 3x$ 
 $+3$ 
 $+3$ 
 $-4 = x$ 

We subtract 2x from both sides because it is the smaller term of x.

Then solve like a normal two step equation.

**Top tip**: Always subtract/add the smaller number of terms to avoid getting a negative term at the end.

Solve this inequality and represent your answer on a number line:

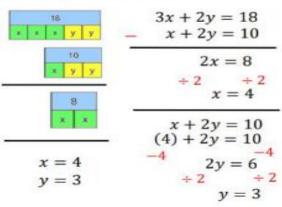
$$5x-6 \le 14$$
  
 $+6$   $+6$   
 $5x \le 20$   
 $\div 5$   $\div 5$   
 $x \le 4$ 

Solve this inequality and represent your answer on a number line:

$$4 < 3x + 1 \le 13$$
-1
 $3 < 3x \le 12$ 
 $\div 3 \div 3$ 
 $1 < x \le 4$ 

Simultaneous equations are when more than one equation are given, which involve more than one variable. The variables have the same value in each equation.

Solve by subtraction



Solve by addition

$$3x + 2y = 16$$

$$+ 6x - 2y = 2$$

$$9x = 18$$

$$\div 9$$

$$x = 2$$

$$3x + 2y = 16$$

$$3(2) + 2(y) = 16$$

$$6 + 2y = 16$$

$$-6$$

$$2y = 10$$

$$y = 5$$

Solve by adjusting one

$$h+j=12$$
 No equivalent values  $2h+2j=29$   $29$   $29$   $24$   $2h+2j=29$  By proportionally adjusting one of  $29$ 

12

h i

By proportionally adjusting one of the equations — now solve the simultaneous equations choosing an addition or subtraction method

# Songwriting

# Keywords

- . Structure How the parts of a song are ordered.
- Riff A repeating pattern of notes, normally played on a guitar or bass.
- . Hook A short memorable melody normally heard in the chorus.
- . Verse A section of a song that repeats but the lyrics often change.
- . Chorus A second of a song that repeats with the same lyrics each time. Often the catchy and memorable part of the song.
- Chord 2 or more notes played at the same time.
- . Lyrics The words sung in a song.
- . Composition When you write a song.



FLAT





# The Elements of Music

- · Tempo (Speed)
- Timbre (Sound of the Instrument)
- Pitch (High or Low Notes)
- . Dynamics (Loud or Soft
- Texture (Layers of Music)
- . Duration (Length of Notes)
- · Silence (No Sound)
- Structure (Order of Sections)
- Rhythm (Long and Short Notes)



MET

Symbol	Name	Length
0	Minim	2 Beats
	Crotchet	1 Beat
<b>)</b>	Quaver	½ Beat
	Pair of Quavers	2 x ½ Beat
3	Rest	1 Beat

# Year 9 Terms 3 & 4: Music for Moving Image

# **Key Words**

Ostinato
Syncopation
Sequence
Imitation
Inversion
Pedal Note
Dissonance
Chromaticism

Cluster Chords

Mickey Mousing

Leitmotif

# **Musical Elements**

Dynamics (volume)

Rhythm (duration of notes)

Tempo (speed)

Context (background info)

Structure (sections)

Melody (organisation of pitches)

Instrumentation (instruments & voices)

Texture (layers)

Harmony (chords & progressions)

Tonality (key)



# Composers & Pieces

- John Williams
- Hans Zimmer
- Rachel Portman
- Jerry Goldsmith
- Danny Elfman
- Angela Morely
- Bernard Herman
- Enio Morricone
- Ramin Djawadi

# Film Music Genres studied

Horror, Romantic

Sci-fi / Futuristic, Nature documentaries

Video games

# Instruments & Techniques

Strings (Violin, Viola, Cello, Double Bass)

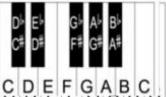
Pizzicato (plucking strings)

Woodwind (Flute, oboe, clarinet, bassoon)

Brass (Trumpet, French Horn, Trombone, Tuba)

Percussion (Timpani, Bass drum, Snare drum, triangle, maracas, bells)

Synthesisers (computer generated sounds & FX)



# **POWER**

# Vertical jump

Equipment: Wall, tape measure, chalk

Usually measured in: cm



# **MUSCULAR STRENGTH**

# Grip dynamometer

Equipment: Grip dynamometer

Usually measured in: KgW



# **FLEXIBILITY**

# Sit and reach

Equipment: Sit and reach box

Usually measured in: cm



# SPEED

# 35-metre sprint

Equipment: tape measure and stopwatch

Usually measured in: seconds (s)



# PE Knowledge Organiser

# **FITNESS TESTING**

Component of fitness	Fitness test
Flexibility	Sit and reach
Strength	Grip Dynamometer
Aerobic endurance	Multi-stage fitness test Forestry step test
Speed	35-metre sprint
Speed and agility	Illinois agility run
Power	Vertical jump test
Muscular endurance	1-minute press-up test 1-minute sit-up test
Body composition	Body mass index (BMI) Bioelectrical impedance analysis (BIA) Skinfold testing – Jackson-Pollock nomogram method

# **BODY COMPOSITION**

# **Body Mass Index (BMI)**

Equipment: Scales and tape measure

Usually measured in: kg/m<sup>2</sup>

# Bioelectrical Impedance Analysis (BIA)

Equipment: BIA analyser and a mat

Usually measured in: % body fat

# Skinfold test

Equipment: Skinfold callipers

Usually measured in: % body fat



# **AEROBIC ENDURANCE**

# Multistage fitness test

Equipment: Bleep test CD, tape measure,

cones

Usually measured in: ml/kg/min

# Forestry step test

Equipment: Step (Males = 40cm high / Females = 33cm high), metronome, stopwatch.

Usually measured in: ml/kg/min

# SPEED AND AGILITY

# Illinois agility test

Equipment: cones, tape measure, stopwatch

Usually measured in: seconds (s)

# **MUSCULAR ENDRUANCE**

# One-minute sit-up test

Equipment: A mat and a stopwatch

Usually measured in: sit-ups per minute

# One-minute press-up test

Equipment: A mat and a stopwatch

Usually measured in: press-ups per

minute



# War: When people disagree Knowledge Organiser



NEED	TO KNOW WORDS
Justice	A situation where people are treated fairly or correctly
Pacifism	The belief that no violence or war can ever be justified
Civilians	People who are not members of the armed forces or other military group
Jihad	To struggle to follow Allah, in some situations this may require the use of violence to prevent further suffering. (lesser Jihad)
War	Armed conflict between two countries or different groups
Just War	A war which is considered morally justified as it follows Thomas Aquinas' 7 rules of Just War.
Justified	When an action is considered good because of the reasons for it or outcome it might produce.

What are the causes of conflict?  The causes of any war are complex. Wars are rarely about just one thing. They can be declared when a state or states act to:					
resist such an attace protect another st impose domination resist such domina challenge a threat state counter perceived ethnic group defend the national War can also occur	counter perceived threats from a different ideology, religion or				
Live by the sword, What does Love your enemies					

Estimated number of military and civilian fatalities in major UK conflicts since World War Two	The main casualties of war include:
Northern Indiand	servicemen and women who lose their lives or are injured civilians who lose their lives or are injured civilians who have their families, homes and way of life damaged or destroyed damage to the country's infrastructure, eg roads and bridges destroyed refugees who have to flee their country of birth to find safety

Live by the sword, die by the sword Matthew 26	What does Christianity teach about war and peace?	Love your enemies and pray for those who persecute you. Matthew 5:44
And let him who has no sword sell his mantle and buy one. Luke 22:36	nation shall not lift up sword against nation, neither shall they learn war any more. Isaiah 2:4	Defend the rights of the poor and orphans; be fair to the needy and helpless. Rescue them from the power of evil men. Psalm 82

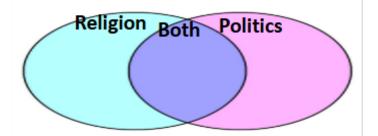
What are the two types of Jihad?			
Greater Lesser		SCAN ME	
The struggle	Non-violent	Violent	
against oneself	The word of justice in front of the oppressive ruler	To defend, not attack	
Spiritual	Verbal	Physical (military)	
Against yourself	Against the oppressive ruler	Against those who fight you	



# What happens when people disagree?

Key Word		Definition
Persecution	矮为歌	Cruel or unfair treatment, especially because of race or religious or political beliefs.
Schism		A tear or split. In religion it is when the religion splits into opposing groups.
Denomination or sect	Æ	A branch or group within a religion. For example, Sunni and Shid in Islam, or Catholic and Protestant in Christianity.
Islamophobia	HO MORE INSPIRES	The fear of, hatred of, or prejudice against the religion of Islam or Muslims in general.
Homophobia		Dislike of or prejudice against gay people.
Holocaust		Also known as the Shoah, between 1941 and 1945, this was the genocide of European Jews during World War II.

What's the difference between religion and politics?



Religion = a system of faith and worship

Votin

Belief

God

Politics = the influence of governments or other groups that hold power.

ng	Prayer	Crime and punishment
fs	Worship	Government

Laws

Place these words on a venn diagram.

leaders

Jihad: The struggle of Muslims to make

themselves and their society pleasing to Allah.

society, themselves, struggle

# Greater jihad:

The personal, inward struggle of all Muslims to live in line with the teachings of their faith.

# Lesser jihad:

The outward collective struggle to defend their faith, family and country from threat.



APOSTASY = GIVING UP YOUR FAITH FUMIE = IMAGE OF CHRIST OR VIRGIN MARY (A "STEPPING" PICTURE)

Whoever kills an innocent life it is as if he has killed all of humanity...

| Suret Al-Me'ideh 5:32 |

[tp]

#### The Golden Rule

"Do unto others as you would have them do unto you"

Matthew 7:12

Shed not recklessly the blood of another with thy sword, lest the Sword on High falls upon thy neck

"WHAT IS HURTFUL TO YOURSELF DO NOT DO TO YOUR FELLOW MAN." - TALMUD, SHABBAT 31A (JUDAISM)



# HOW ARE PEOPLE PERSECUTED?

#### WOMEN OF ENGLAND PERSECUTION

#### 'The witch Hunts'

What? Warrenin the British bles.

When The witch bank baled from 1625, and after the Battle of Basely, to 1847.

Where't rost origin in ringh nd

By Whare? By the civetian authorities is a manicalled Matthew Hopkins 'The Witch-Finder General'

#### What happened?

People, aspecially women, who were different in one way, through use. or physical disability, or reents i disability, were picked out by those who wanted to be leve there was some specific reason why things had gone wrong in the community.

They were accused of being witches & were put on that, if found guilty, they would be peoputed.

#### NATIVE AMERICAN PERSECUTION

Whe? Netive American tribus

Whea? 1881-1888

Where? Southern United State

By Whom? American government

#### What happened?

This period of American history i between as 'The Trail of Teact'

The united States government forced Native Americans to move from their homelands in the Southern United States to Indian Territory in Oklaho ma. Peoples from the Cherokee, bluszogee, Chickasaw, Chectary, and Seminole tribes were marched at gampoint across handreds of miles to retervations.

#### AZTECS PERSECUTION

Who? The Aztec Empire

When? February 1519 - August 13, 1521

Where? Aztec Empire (Modern day Mexico)

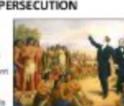
By Whom? Spanish Conquistadores

#### What happened?

Between 1519 and 1521 the Spanish, under the leadership of conquistador Hernan Cortés, conquered the Aztec Empire.

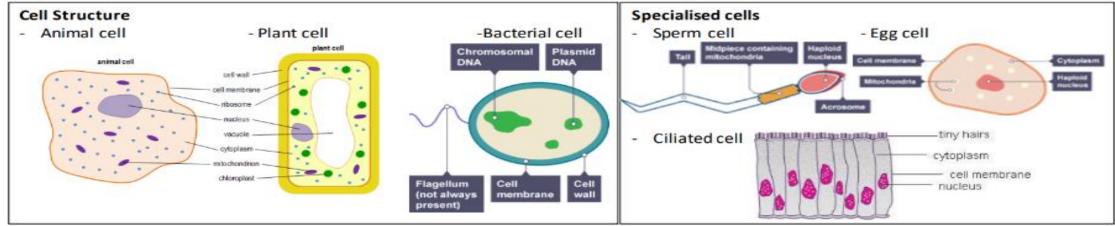
Cortés arrived with around 500 men, 16 horses, and some cannon. They captured the Aztec king, Montezuma II, & killed him. Fighting began & a second Aztec king was killed. The Spanish conquistadores took the capital city Tenochtitlan (now Mexico City).





# EDEXCEL 9-1 Combined Science | Biology Topic 1 - Key Concepts | Required Knowledge

CPG F & H tier: pages 11-14.



# **Making Microscope Slides**

- 1. Take a thin slice of specimen (to let light through)
- 2. Put a drop of water on a slide and use tweezers to add the specimen (water holds it in place) Light Source
- 3. Add a drop of stain (makes it easier to see)
- 4. Use a mounted needed to lower a cover slip and press down firmly

Objective Power Lens.

Displace

(so there are no bubbles)

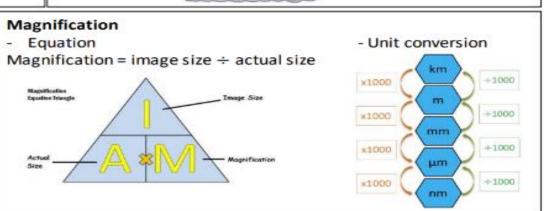
- 5. Put the slide on the stage and secure using the clips
- 6. Choose the lowest powered objective lens
- 7. Use the coarse focusing knob to move the stage up and down while looking through the eyepiece

(to focus the image)

- 8. Adjust the focus using the fine adjustment knob
- 9. Put a clear ruler on the state to measure the diameter of your field of view

(this will allow you to estimate the size of the specimen)

10. Repeat focusing with higher-powered objective lens if needed

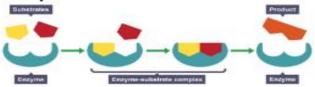


ight vs. Electron Microscopes	
Light microscope	Electron microscope
Inexpensive to purchase and operate	Expensive to purchase and operate
Simple and easy specimen preparation	Complex and lengthy specimen preparation
Magnifies up to 2000×	Magnifies over 500 000×
Specimens may be living or dead	Specimens are dead, and must be fixed in a plastic material

# EDEXCEL 9-1 Combined Science | Biology Topic 1 - Key Concepts | Required Knowledge

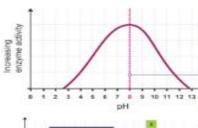
CPG F & H tier: pages 15-17.

# **Enzyme Structure**

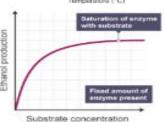


Enzymes speed up chemical reactions where things are split apart or joined together. Enzymes only work with one substrate, they have a high specificity due to the shape of the active site. The substrate's shape has to match the active site's shape exactly. This is called the 'lock and key' model.

# Factors affecting enzymes



Temperature (°C)



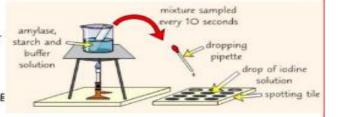
As the enzyme experiences conditions away from the optimum the shape of the active site begins to change meaning the substrate can't fit as well and less reactions will occur.

As the enzyme experiences warmer conditions it (and the substrate) will move more quickly, there will be more collisions and more reactions. After the optimum the heat causes the shape of the active site to change in the same way as pH.

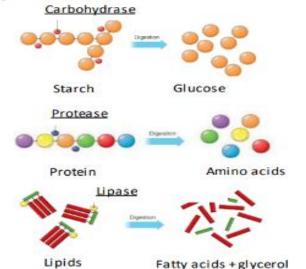
As more substrate is added the more collisions there will be with available enzymes and more reactions, up until a certain (saturation point), where all of the enzymes are already working at their maximum rate.

# **Investigating Enzymes**

The enzyme amylase catalyses the break down of the starch into maltose (sugar). The enzyme is added to buffer solutions of different pHs. The time it takes for the enzyme to work is calculated by continuously sampling the mixture and adding it to iodine. Only when all of the starch has been broken down will the iodine stop changing colour. Calculation needed: Rate = 1 + time taken.



# Specific digestive enzymes



All of these digestive processes can happen in reverse = synthesis.

# **Investigating Osmosis**

- Prepare sucrose solutions of 5 concentrations
- 2. Measure the mass of potato cylinders
- Put one cylinder into a test tube of each solution
- 4. Leave for 40 mins
- 5. Pat dry and reweigh

#### Results

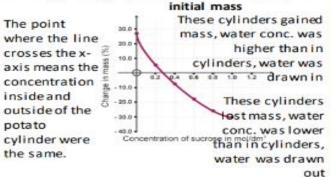
The point

potato

the same.

Calculate percentage change in mass.

# Percentage change = final mass - initial mass x100



# Transport

#### Diffusion Movement of particles

from high concentration to low concentration e.g. carbon dioxide into plant leaves

# Osmosis

Movement of water particles across a partially permeable membrane from high water concentration to low water concentration e.g. water into plant roots

# Active Transport

Movement of particles across a membrane from high concentration to lower concentration, using energy transferred during respiration e.g. nitrates into plant roots

# EDEXCEL 9-1 Combined Science | Biology Topic 2 - Cells and Control | Required Knowledge

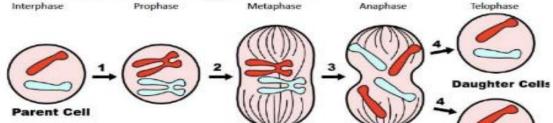
CPG F & H tier: pages 20-22. 26.

# Mitosis (p20)

cell

using percentage

- Type of cell division used for growth and repair



Interphase - cell makes extra sub-cellular parts. DNA replication occurs, chromosome copies stay attached.

Prophase - nucleus breaks down and spindle fibres appear. Chromosomes become visible

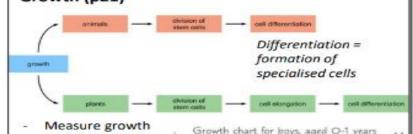
Metaphase - chromosomes use spindle fibres to line up along the middle of the

Anaphase - chromosome copies are separated and move apart to each end of the cell using spindle fibres.

Telophase - a new nuclear membrane forms around each set of chromosomes. Cytokinesis - new cell membrane forms to separate the 2 daughter cells.

# IPMATC

# Growth (p21)

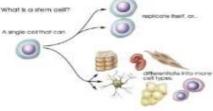


Produces 2 genetically identical daughter cells from 1 parent

- change Percentage change = Or using percentile charts which divide a measurements from a large nese numbers indicate group into 100 what percentile each line on the chart represents. equal sections ->
  - Age (months) E.g. a three-month-old who weighs 7 kg is just above 75th percentile - roughly 75% of threemonth-olds are lighter and 25% are heavier

1 2 3 4 5 6 7 8 9 10 11

# Stem Cells (p22)



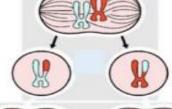
- Embryonic stem cells found in embryos can differentiate into any specialised cell
- Adult stem cells are limited in the type of cell they can differentiate into
- Lots of potential uses
- Ethical issues
- Plant stem cells called meristem cells are found in shoots and roots and can differentiate into any cell type

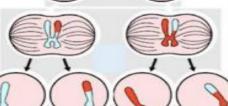
# Meiosis (p26)

- Type of cell division used to form gametes (sperm and egg cells)
- Produces 4 genetically different daughter cells from 1 parent cell
- The chromosomes are copied in the same way as mitosis
- Pairs of copied chromosomes line up along the middle of the cell
- The pairs separate
- The chromosomes line up along the middle of the cell again
- The copies within each pair then separate
- This leaves 4 haploid cells (half of the original number of chromosomes in this diagram 1 chromosome instead o

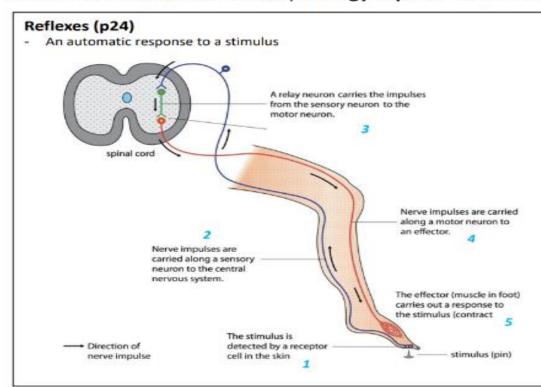






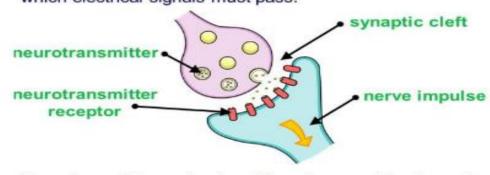


# EDEXCEL 9-1 Combined Science | Biology Topic 2 - Cells and Control | Required Knowledge | CPG F & H tier: pages 23-24.



Don't forget to try the revision questions for topics 1 & 2 on page 25!

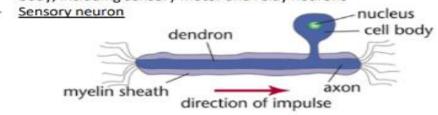
# Synapses (p24) A synapse is a junction between two neurones across which electrical signals must pass.



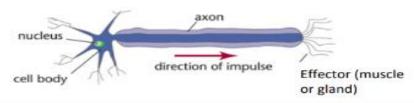
Neurotransmitter molecules diffuse from vesicles towards the neurotransmitter receptors, moving from an area of high concentration to low concentration.

# Nervous System (p23)

- Central nervous system = brain and spinal cord
- Peripheral nervous system = all other neurons (nerve cells) around the body, including sensory motor and relay neurons

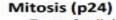


Motor neuron

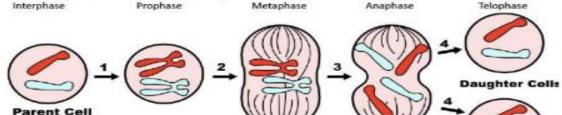


# EDEXCEL 9-1 Biology | Topic 2 - Cells and Control | Required Knowledge

CPG Biology: pages 24-26. 32.



- Type of cell division used for growth and repair



month-olds are lighter and 25% are heavier.

 Produces 2 genetically identical daughter cells from 1 parent cell Interphase – cell makes extra sub-cellular parts. DNA replication occurs, chromosome copies stay attached.

**Prophase** – nucleus breaks down and spindle fibres appear. Chromosomes become visible

**Metaphase** – chromosomes use spindle fibres to line up along the **m**iddle of the cell.

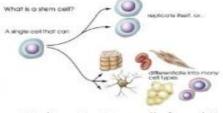
Anaphase – chromosome copies are separated and move apart to each end of the cell using spindle fibres.

**Telophase** – a new nuclear membrane forms around each set of chromosomes. **Cytokinesis** – new cell membrane forms to separate the 2 daughter cells.

# IPMAT

# Growth (p25) Differentiation = formation of specialised cells Measure growth Growth chart for boys, aged O-1 years using percentage change Percentage change = Or using percentile charts which divide a measurements from a large These numbers indicate group into 100 what percentile each line on the chart represents. equal sections -> 1 2 3 4 5 6 7 8 9 10 11 Age (months) E.g. a three-month-old who weighs 7 kg is just above 75th percentile - roughly 75% of three-

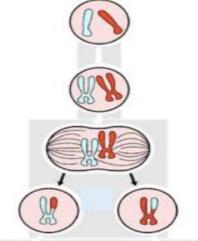
# Stem Cells (p26)

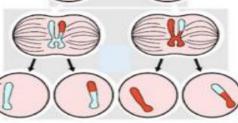


- Embryonic stem cells found in embryos can differentiate into any specialised cell
- Adult stem cells are limited in the type of cell they can differentiate into
- Lots of potential uses
- Ethical issues
- Plant stem cells called meristem cells are found in shoots and roots and can differentiate into any cell type

# Meiosis (p32)

- Type of cell division used to form gametes (sperm and egg cells)
- Produces 4 genetically different daughter cells from 1 parent cell
- The chromosomes are copied in the same way as mitosis
- Pairs of copied chromosomes line up along the middle of the cell
- The pairs separate
- The chromosomes line up along the middle of the cell again
- The copies within each pair then separate
- This leaves 4 haploid cells (half of the original number of chromosomes in this diagram 1 chromosome instead of 2





# EDEXCEL 9-1 Biology | Topic 2 - Cells and Control | Required Knowledge

stimulus (pin)

CPG Biology: pages 27-30.

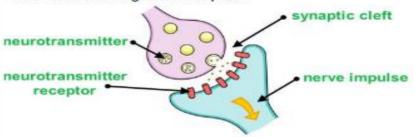
# Reflexes (p29) - An automatic response to a stimulus A relay neuron carries the impulses. from the sensory neuron to the motor neuron. Nerve impulses are carried along a motor neuron to an effector. Nerve impulses are carried along a neuron to the c nervous system. The effector (muscle in foot) carries out a response to the stimulus (contracts). The stimulus is --- Direction of detected by a receptor

# Synapses (p29)

nerve impulse

A synapse is a junction between two neurones across which electrical signals must pass.

cell in the skin.

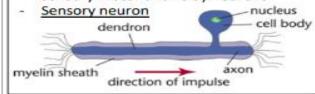


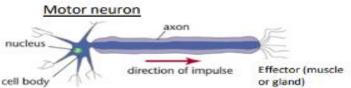
Neurotransmitter molecules diffuse from vesicles towards the neurotransmitter receptors, moving from an area of high concentration to low concentration.

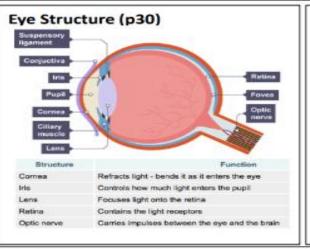
> Don't forget to try the revision questions for topics 1 & 2 on page 31!

# Nervous System (p27)

- Central nervous system = brain and spinal cord
- Peripheral nervous system = all other neurons (nerve cells) around the body, including sensory motor and relay neurons

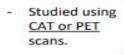






# Brain (p29)

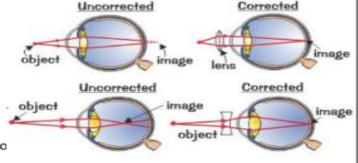
- Cerebral hemispheres: largest part, centre of intelligence, memory, speech and consciousness. Left = right
- <u>Cerebellum</u>: controls muscle function, speech, thought, emotions, reading writing and learning
- Medulla oblongata: centre for controlling respiration, circulation and digestion





# Eye Problems (p30)

- Long sighted: image forms behind retina.
   Corrected using convex lens to bring rays together and move image forwards
- Short sighted: image forms in front of retina. Corrected using concave lens to spread out rays and move image back
- Colour blindness: genetic condition with fault cones cells in the retina leading to difficulty differentiating colours. Not able to be corrected.
- <u>Cataracts</u>: a clouding of the lens. Corrected by replacing the lens.



# 9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs



The present tense	AR verb	ER verb	IR verb
yo (I)	-o	-o	-о
tu (you)	-as	-es	-es
él/ella (he/she)	-a	-е	-e
nosotros/as (we)	-amos	-emos	-imos
vosotros/as (you all)	-áis	-éis	- ís
ellos/ellas (they)	-an	-en	-en

# The future tense in Spanish

You can talk about the future by using the near future tense.

Use part of the verb IR + a + the infinitive to say what you are going to do.

Este tarde **voy a jugar** al tenis. *This evening I am going to play tennis.*Mañana Paul **va a hacer** un pastel. *Tomorrow Paul is going to make a cake.* 

You can also use the following phrases with an infinitive to refer to the future.

Quiero = I want Me gustaría = I would like Quisiera = I would like Espero = I hope

# Adjectives describe nouns e.g. a black blazer.

In Spanish, adjectives normally go after the words they are describing e.g. una camisa azul (a blue shirt) and they have to agree with the noun they are describing.

Adjectives must agree with the noun (or pronoun) they describe in gender and in number.

This means that if the noun an adjective describes is feminine, the adjective must be feminine e.g. una chaqueta negra (a black blazer).

If that same noun is also plural, the adjective will be feminine AND plural as well e.g. las medias negras (black tights).

# <u>Comparatives</u> – to express more or less than

- ... es más...adjective...que is more...adjective...than
- ... es menos ...adjective ....que is less...adjective... than
- ... es tan...adjective....como is as...adjective...as

# For example:

El inglés es más interesante que la geografía. (English is more interesting than Geography)

La historia es menos activa que la educación física. (History is less active than PE)

El francés es tan difíil como las matemáticas. (French is as difficult as maths).

	¿Cuál es tu asignatura favorita?	What is your favourite subject?
	1. El inglés	English
掘	2. El español	Spanish
	3. El francés	French
5	4. El teatro	Drama
<b>A</b>	5. El dibujo	Art
	6. El deporte	PE
	7. La informática	Computer Science
6	8. La música	Music
· Sign	9. La tecnología	Technology
<b>**</b>	10. La geografía	Geography
	11. La historía	History
+ <sup>Q</sup> .	12. La religion	RE
2+5+ 45 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0 x 0	13. La educación personal y social	PSHE
18 10 € 10 € 10 € 10 € 10 € 10 € 10 € 10	14. Las matemáticas	Maths
	15. Las ciencias	Science
,•••	16. Las humanidades	Humanities
	¿Cuál es tu opinión?	What is your opinion?
	17. Es	It is
	18. Interesante	Interesting
	19. Práctico	Practical
	20. Útil	Useful
	21. Ínutil	Useless
	22. Fácil	Easy
	23. Difícil	Difficult
	24. Aburrido	Boring
	25.Emocionante	Exciting
	26. Creativo	Creative

Important

27. Importante

¿Qué llevas?	What do you wear?
28. Llevo	l wear
29. Una chaqueta	Blazer
30. Un jersey	Jumper
31. Una camisa	Shirt
32. Una camiseta	T-shirt
33. Una corbata	Tie
34. Una falda	Skirt
35. Unos calcetines	Socks
36. Unos pantalones	Trousers
37. Unos zapatos	Shoes
38. Unas medias	Tights
¿Cómo es tu uniforme escolar?	What is your school uniforme like?
39. Es	It is
40. Feo	Ugly
41. Bonito	Pretty
42. (in)cómodo	(un) comfortable
43. Caro	Expensive
44. Barato	Cheap
45. De moda	Fashionable
46. Pasado de moda	Unfashionable

The school day
I leave home
I go to school
Classes start
Classes end
It lasts
Break
Lunch
In the morning
In the afternoon

# **9.11 My school -**Spanish Vocab List

¿Cuáles son las reglas?	What are the rules?
56. (no) se debe	You must(n't)
57. (no) se puede	You can('t)
58. Hay que	You have to
59. Está prohibido	It is forbidden
60. Escuchar en clase	To listen in class
61. Usar el móvil en clase	To use your phone in class
62. Llevar joyas	To wear jewellery
63. Llevar maquillaje	To wear make up
64. Llevar zapatillas de deporte	To wear trainers
65. Dañar las instalaciones	To damage the facilities
66. Respetar el turno de palabra	To wait your turn to speak
67. Comer chicle	To chew gum
68. Hacer los deberes	To do homework

¿Qué quieres hacer en el futuro?	What do you want to do in the future?
69. Quiero / Me gustaría	l want / I would like
70. Aprobar mis exámenes	To pass my exams
71. Sacar buenas notas	To get good grades
72. Hacer un aprendizaje	To do an apprenticeship
73. Buscar trabajo	To look for a job
74. Trabajar como voluntario	To work as a volunteer
75. Viajar por el mundo	To travel the world
76. Tener hijos	To have children
77. Casarme	To get married
78. Aprender a conducir	To learn how to drive
79. ¿Qué vas a ser en el futuro?	What are you going to be in the future?
80. Voy a ser	I am going to be
81. Médico/a	Doctor
82. Profesor(a)	Teacher
83. Abogado/a	Lawyer
84. Mecánico	Mechanic
85. Fontanero	Plumber
86. Bombero	Firefighter
87. Veterinario	Vet
88. Peluquero	Hairdresser

#### Year 9 Textiles Knowledge Organiser **Textiles Hierarchy of Key words** The 6 R's when it comes to sustainability Equipment Use A bobbin is a cylinder, to which cotton thread **Bobbin** is wrapped around. It is found in the bottom part of a sewing machine. Plain seam Tier 3 'Academic' keywords. Overlocker machine An overlocker does not replace a sewing analyse machine. Its primary function is to clean finish sustainable a raw edge, giving the project a professional appearance embellishment RETHINK REFUSE REPAIR Woven/bonded/knitted Quick unpick It is used to quickly remove stitches and seams. function Free machine Tailor's chalk Used to mark on to fabric. It is easily washed develop embroidery Complementary colours **Measuring Tape** It is a flexible ruler that can be used for body Valuable keywords used in most lessons every lesson. measurements, tailoring and dressmaking. It contrast environment REDUCE REUSE RECYCLE is flexible to measure fabric and curves of the fastening Sticking Line embroidery Tier 2 compare One image is called a equipment iron Batik context Wrong side of appliqué The motif has been repeated to make effect improve two different patterns Batik is a type of resist printing process in which wax is applied to design shape colour Hem the fabric in specific areas. When Seam Basic keywords used in almost every lesson the wax hardens, the fabric is machine What is the difference between a hem and States Live submerged in dye. The wax Texture prevents the dye from reaching the pattern a seam? line fibers. The fabric is then boiled to A hem is a neat non fraying edge made by tone remove the wax. This fabric-dyeing theme folding fabric over and stitching it down. A method makes cotton look Fabric crackled. Batik is characterised by a seam is a line along which pieces of cloth brick repeat pattern/ thread plain repeat sew unique, nearly pattern-less are joined by sewing. offset repeat pattern pattern appearance.

# Use these in your writing and speaking

	Explain an idea:	Sequencing:			
Use connectives to	<ul> <li>Although</li> </ul>	<ul> <li>Firstly</li> </ul>			
link each	<ul> <li>Except</li> </ul>	<ul> <li>Secondly</li> </ul>			
paragraph!	<ul> <li>Unless</li> </ul>	Next			
	<ul> <li>However</li> </ul>	<ul> <li>Finally</li> </ul>			
	<ul> <li>Therefore</li> </ul>	Since			
Adding to:	Cause and effect:	Contrasting:			
<ul> <li>Furthermore</li> </ul>	Thus	<ul> <li>Whereas</li> </ul>			
Also	• So	<ul> <li>Instead of</li> </ul>			
As well as	<ul> <li>Therefore</li> </ul>	<ul> <li>Alternatively</li> </ul>			
Moreover	<ul> <li>Consequently</li> </ul>	<ul> <li>Otherwise</li> </ul>			
		<ul> <li>Then again</li> </ul>			
To empathise:	To compare:	Give examples:			
Above all	<ul> <li>Likewise</li> </ul>	Such as			
<ul> <li>Ultimately</li> </ul>	<ul> <li>Equally</li> </ul>	<ul> <li>For example</li> </ul>			
<ul> <li>Especially</li> </ul>	<ul> <li>In the same way</li> </ul>	<ul> <li>In the case of</li> </ul>			
<ul> <li>Significantly</li> </ul>	<ul> <li>Similarly</li> </ul>	<ul> <li>As revealed by</li> </ul>			
		<ul> <li>For instance</li> </ul>			

# DESCRIBE



I believe that... I think that...

The main idea is...

# **EXPLAIN**



This means that...

Therefore...

This maybe because...

# JUSTIFY



This is positive because...

This is negative because...

It is useful/not useful because...

# ANALYSE



One strength is...

One argument is...

One weakness is...

# **EVALUATE**



One advantage is... One disadvantage is...

The best option is...

# COMPARE AND CONTRAST



One similarity is... One difference is...

On the other hand...

# Sentence starter phrases

Most people would agree...

Only a fool would think...

We all know...

A sensible idea would be...

The fact is that...

Surely you would agree that...

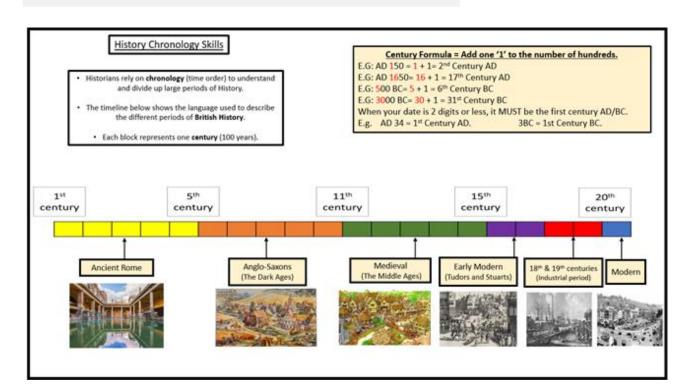
Without a doubt...

I am certain that...

Some people might argue...

However...

Also...



# Use these in your writing and speaking in DT



# Design and Technology Keywords

Food and Nutrition	Design and Technology	Textiles			
Caramelisation	Carbon footprint	Plain seam			
Aeration Amino acids	Planned Obsolescence	analyse sustainable			
Plasticity Shortening	Iterative Design Tolerance	embellishment			
Denaturation Coagulation	Technology Push Anthropometrics	Woven/ bonded/ knitted			
Gelatinisation	Consumer Social Footprint	Free machine function			
Emulsification Pasteurisation	Ergonomics Forming Processes	embroidery develop			
Unsaturated Protein Radiation Saturated	Aesthetics Target Market	Complementary colours contrast environment			
Carbohydrates	Properties Deciduous	fastening			
Conduction	Coniferous	compare embroidery			
Digest Deficiency	Automation Functionality	equipment			
Convection Cross-contamination	Primary Source Sustainability	context appliqué			
Micro-organisms	Continuous Improvement	effect improve			
Flavour Claw grip	Cost Customer	colour design shape			
Texture Aroma	Materials Annotation	machine			
Nutrients Energy	Product Safety	pattern line Texture			
Appearance Bridge hold	Design Environment	theme			
Mix Smell	User Prototype	thread Fabric sew			







# **Sentence Starters - DT**

I have designed...because My project was about...

I found... during my research

My design is suitable for...

I have learnt how to...

The most enjoyable part of my project was....

The area I found the most challenging was...

Equipment I have used include...

I would improve my work by...

I am pleased with my finished product because...

# **Sentence Starters- Food and Nutrition**

In order to work hygienically/safely I made sure I ....

I worked safely when in the kitchen by...

If I could improve any skill, I would improve...because...

Overall, I am happy/unhappy with my progress/dish

because....

The texture of my dish is... this is because...

# **Sentence starters- Textiles**

I have designed....

The context of my design is...

My research is useful because...

By researching, I am able to.....

By researching I have found out....

I researched into....

My design is suitable for.....

My design is based upon...

I have planned to..

The order I will work in is...

The most enjoyable part of m project was...

The area I found most challenging was...

I am most pleased with...

I am pleased with my finished project

because...

Equipment I used was...

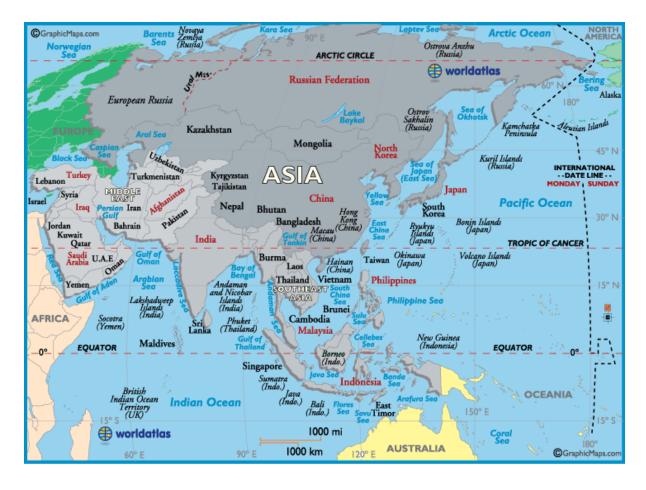


# The periodic table of the elements

1	2			Key			1 H hydrogen 1					3	4	5	6	7	0 4 He helium 2
7 Li lithum 3	9 Be beryllium 4		ato	ve atomic omic symi name (proton) r	bol							11 B boron 5	12 C carbon 6	14 N nitrogen 7	16 O oxygen 8	19 F fluorine 9	20 Ne neon 10
23 Na sodum 11	24 Mg magnesium 12											27 Al atuminium 13	28 Si silcon 14	31 P phosphorus 15	32 <b>S</b> ****** 16	35.5 CI chlorine 17	40 Ar arpon 18
39 K potassium 19	40 Ca caldum 20	45 Sc scardum 21	48 Ti stantum 22	51 V venadum 23	52 Cr chromium 24	55 Mn manganese 25	56 Fe iron 26	59 Co cotalt 27	59 Ni nickel 28	63.5 Cu copper 29	65 <b>Zn</b> ±nc 30	70 Ga gallum 31	73 Ge germanium 32	75 As arsenic 33	79 Se selenium 34	80 Br bromine 35	84 Kr krypton 36
85 Rb nbidum 37	88 Sr strontum 38	89 <b>Y</b> yerium 39	91 Zr ziroznium 40	93 Nb nkblum 41	96 Mo molybdanum 42	[98] Tc technetium 43	101 Ru nutherium 44	103 Rh modum 45	106 Pd polisdium 46	108 Ag sever 47	112 Cd cadmium 48	115 In indum 49	119 Sn sn 50	122 Sb artimony 51	128 Te telurium 52	127       iodine   53	131 Xe xenon 54
133 Cs commum 55	137 Ba barium 56	139 La* lanthanum 57	178 Hf hafrium 72	181 Ta tentelum 73	184 W tungsten 74	186 Re menium 75	190 Os osmium 76	192 Ir iridum 77	195 Pt platrum 78	197 Au gold 79	201 <b>Hg</b> mercury 80	204 TI thallium 81	207 Pb lead 82	209 Bi bismuth 83	[209] Po polorium 84	[210] At avatine 85	[222] Rn radon 86

The relative atomic masses of copper and chlorine have not been rounded to the nearest whole number.

<sup>\*</sup> The elements with atomic numbers from 58 to 71 are omitted from this part of the periodic table.





# **Subject websites**

These websites will help you with homework, reading around the subject and revision

# **English**

https://www.sparknotes.com/ - Macbeth, A Christmas Carol, An Inspector Calls
https://app.senecalearning.com/ - Macbeth, A Christmas Carol, An Inspector Calls,
Power and Conflict Poetry

https://www.bbc.com/bitesize - Macbeth, A Christmas Carol, An Inspector Calls

# **Maths**

https://corbettmaths.com/

https://vle.mathswatch.co.uk/vle/

https://www.mathspad.co.uk/

# **Science:**

https://www.bbc.com/bitesize

https://www.senecalearning.com/

https://www.memrise.com/

# **Geography**

Time for Geography - videos (mainly focused on physical processes)

**Bitesize** 

**Cool Geography** 

# **History**

Seneca Learning

BBC bitesize - use Edexcel resources for GCSE.

# **Art Websites**

https://www.tate.org.uk/

https://www.bbc.co.uk/bitesize/subjects/z6f3cdm

https://www.incredibleart.org/

# **Computer Science and IT.**

www.mrahmedcomputing.co.uk

# **Drama**

https://youtu.be/VeTpob9LBM8

https://youtu.be/wISEU13mRBE

https://www.bbc.co.uk/bitesize/guides/zsf8wmn/revision/1

# DT:

http://www.mr-dt.com/

http://technologystudent.com/

https://www.senecalearning.com/

# <u>PE</u>

https://www.bbc.com/bitesize/examspecs/ztrcg82 https://sites.google.com/view/ocrgcseperevision/home

# **RS**

KS3 https://www.bbc.co.uk/bitesize/subjects/zh3rkgt

# <u>Timetable</u>

Monday	Tuesday	Wednesday	Thursday	Friday
-				
	Monday	Monday Tuesday	Monday Tuesday Wednesday	Monday Tuesday Wednesday Thursday