

Monday 6th January	Week A
Monday 13th January	Week B
Monday 20th January	Week A
Monday 27th January	Week B
Monday 3rd February	Week A
Monday 10th February	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 3

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 11-13

Geography.....Pg 14-15

German.....Pg 16-18

History.....Pg 19

Maths.....Pg 20-22

Music.....Pg 23

PE.....Pg 24

RS.....Pg 25-26

Science.....Pg 27-32

Spanish.....Pg 33-34

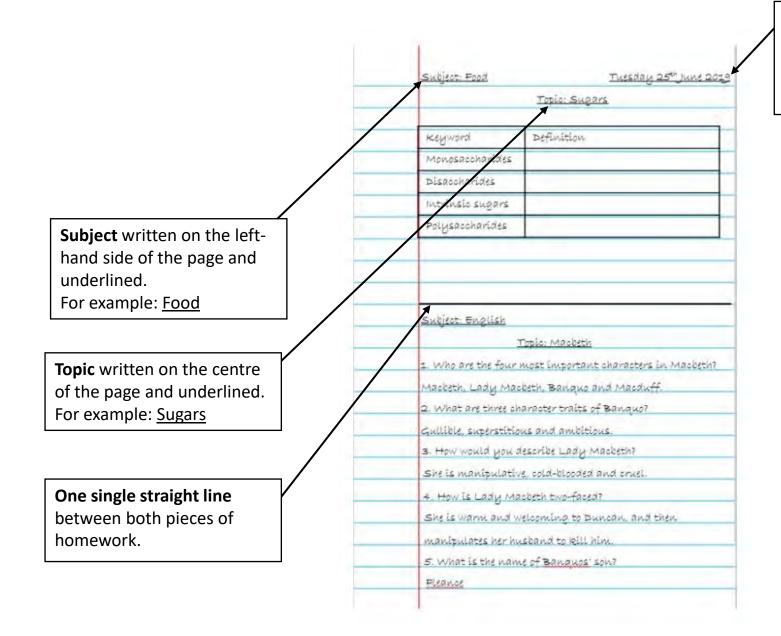
Textiles.....Pg 35

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 publishe		
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	/RS Same process as outlined for English above. DT have 5 questions and not 10.		
/DT			
ICT	For term 1, continue to use the KO to do revision/key words etc in your homework books.		
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?





A protest is a public expression of disagreement, towards an idea or action.

A protest is a mass group that gather for or against a political cause.

It often consists of walking in a mass march formation, beginning with or meeting at a designated endpoint, or rally, to hear speakers.

Symbol- in art and visual language is an image that respresents an idea. For example the dove is recognised as a symbol of peace.

Content: In this project you will learn about protest art as well as some graphic design and communication skills.

Skills - You will learn how to analyse artists work, improve drawing skills, typography and font design, lino printing

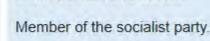
Knowledge - learn about different artists who have created protest art and how to design a poster or flyer

Outcome - Posters, flyers, badges that could be used to protest or raise awareness of a cause or issue.









artist, painter, and activist.

Frank Cieciorka

Created many protest posters and badges for multiple causes.

April 26, 1939 - November 24,

He was an American graphic

Title: All Power to the People

Material:

2008)

- poster
- · work on paper



·PAPER

SCREEN PRINT



22 in HIGH x 17 in WIDE



KEYWORDS

Protest

skills

Raise Awareness

Discrimination

Human Rights

Allyship

Cause

Graphic Design

Symbol

Typography

Font

Lino Print

Lino cutting tool

Printing roller

Printing Ink

YEAR 9 TERMS 1-3 KNOWLEDGE ORGANISER PROTEST ART PROJECT



Understand - how and why artists and designers protest art.













Network Hardware

Modem – Allows a device to connect to the internet.

Network switch – Connects devices together using ethernet cables.

Wireless Access Point – Allows devices to send and receive data over the air (WiFi).



access Point





Modem

Switch

Internet vs WWW

Internet – A global network of connected computers. Allows you to access:

- Cloud storage
- · Streaming services (e.g. Netflix)
- Online gaming
- Mobile apps like TikTok









World Wide Web – A collection of all the web pages (e.g. Facebook, Wikipedia) that are linked together using hyperlinks that start with "www.". You use the internet to access the World Wide Web.

Cyber security:

Malware - Malicious (hostile/bad) software

Types of Malware:

Virus – Malware that is attached to a program or file.



Worms – Malware capable of replicating itself to spread between computers without the user's help.

Trojans – Malware that disguises itself as a legitimate program e.g. a game.

Spyware – Malware that collects information from the computer without the user's consent, e.g. passwords or bank details.

Protecting your computer:

Firewall - controls the flow of data in and out of a



Encryption - Scrambles or obscures information to



Strong passwords - Prevent unauthorised ac

Physical security e.g. locked doors – prevents entry to the building containing the servers.



Anti malware software:

- Scans computer for malicious software
- √ Removes or quarantines malicious software
- ✓ <u>Prevents</u> malware from <u>spreading</u> to other files

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?

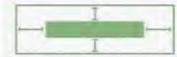
- Pewter is a malleable metal alloy consisting of tin, antimony, copper, bismuth, and sometimes silver. Modern pewter consists of are 94% tin.
- Pewter has a low melting point (around 170-230 °C) making it ideal for melting on a chip forge and brazing hearth and casting

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

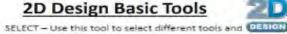


Height + width = shape. There are three basic shapes : Geometric triangles, squares, circles etc), natural (leaves, animals, trees, people) and abstract (see Image)





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





highlight objects. LINE - This tool creates straight lines. Click to start the



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



CIRCLE - This tool creates there shall 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.
- If down't show postportive (things don't get smaller in the distance), but it's army to get dimensions right.
- 3) There are these main rules when drawing in insmetric

West of a last on Armed an invited than Designation of the last of the Physical column prices are particular from

CONTRACTOR AND ADDRESS.

Crating Can Be Used to Draw 3D Shapes

Cretical is where you start by drawing a box — the 'crete' — and gradually add bits on and take bits off fill you get the right shape. For example, you can remove sections from a cuboid to make any other 30 shape.



- 1) When you're sketching a 3D object, It's annier if you imagine if as a bank shape-2) First draw the basin prometric shape faintly
- 3) Stick to a particular drawing technique accontric drawing, for assumple.
- 4) The object can then be drown within the hor 5) Details of the object can be added by drawing
- more geometric chapes on top.

What is an Allov?

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."

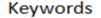
What factors led to the formation of the sci-fi genre?

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:

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 AND 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 t 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 a human.

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, ode.

Caesura – punctuation which occurs midline; slows the rhythm.

Enjambment – lack of terminal punctuation, speeding up the poem.

End-stopping – punctuation at the end of a line

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 sound

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.

55

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

tio

ns

little?

Ex

ce

De

fici

en

cy

SS

Weight loss

Lack of energy, tiredness

ie Severe weakness nc

Hypoglycaemia

Proteins can denature when:



They are whisked, beaten or

They are heated

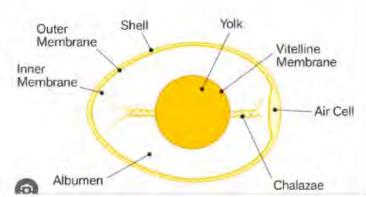




They come into contact with acidic/alkaline ingredients



Proteins unravel becoming firm when heated



Year 9 Knowledge Organiser

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?

 Source of energy nc

Insulation

Obesity

Dissolve vitamins

Hypertension

Fatty liver disease

Type 2 diabetes

Weight loss

· Feeling cold

Vitamin deficiency

There are two different types of fats

Heart disease

Coronary heart disease

Build hormones

Build cell membranes

What happens if we have too much or too

Visible fats

kneaded



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



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



Saturated

Cream

Olive oil

Unsaturated

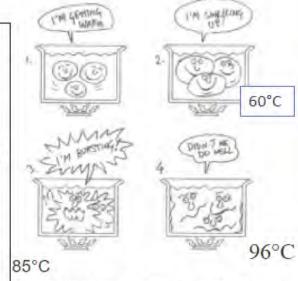
Avocado

thickens sauces by the process of gelatinisation.

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



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









Verbs and the present tense in French The infinitive

When you look up a verb in the dictionary, you find its original, unchanged form which is called the infinitive (manger, boire, jouer, visiter, habiter, aller etc.). The infinitive ends in -re, -er or -ir.

Forming the present tense in French

Take off the last 2 letters of the infinitive (-re, -er or -ir) and add the following endings depending on the pronoun:

*Important! There are some key irregulars to learn which don't follow this pattern - aller (as shown here), être, avoir and faire are really important!

	RE verb	ER verb	IR verb
Je (I)	-s	-е	-s
tu (you)	-s	-es	-s
il/elle (he/she)		-е	-t
nous (we)	-ons	-ons	-issons
vous (you all)	-ez	-ez	- issez
ils/elles (they)	-ent	-ent	- issent

Verbs and the near future tense in French

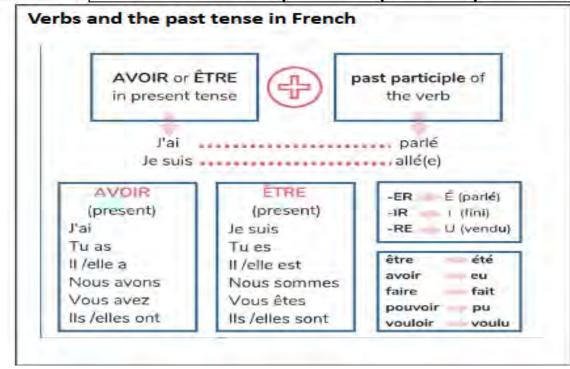
You can talk about the future by using the near future tense.

Use part of the verb ALLER + a + 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 a faire un gateau. Tomorrow Paul is going to make a cake.

Aller (to go)	
Je vais I am going	
Tu vas	You are going
II/elle va	He /she/one is going
Nous allons	We are going
Vous allez	You (lot) are going
lls/elles vont	They are going



3 time frames Infinitives Time phrases

opinions iustifications



1.Expressing FUTURE intentions:

J'ai l'intention de + infinitive (I plan to/ I intend to ...) Je voudrais + infinitive (I would like to...)

2.Using infinitives after j'aime/je m'aime pas/je déteste/je préfère :

You can also use an infinitive after opinion verbs such as aimer, détester and préférer. They are usually translated with a gerund (a verb ending with -ing) in English:

J'aime habiter à Newcastle - I like living in Newcastle.

Tu préfères jouer au foot ou au tennis? - Do you prefer playing football or tennis?

Je déteste boire du café parce que c'est dégoûtant - She hates drinking coffee because it's disgusting.

3.Opinions

J'aime - I like J'aime beaucoup- I like a lot Je n'aime pas beaucoup- I don't like much Je préfère - I prefer

Je déteste - I hate Je ne peux pas supporter - I can't stand

4. Justification

Parce que - because Ainsi- therefore/so Par conséquent - consequently

5.Comparisons

Plus.....que -more...than Moins...que - less...than Aussi...que - as...as

6.Superlative

Le/la plus - the most

Le/la moins - the least

Le/la mieux - the best

Le/la pire - the worse

7.Time phrases

Normalement - normally D'habitude - usually Géneralement - generally Quelquefois - sometimes

Ensuite - next Rarement - rarely Le weekend prochain- next weekend La semaine prochaine - next week

Le weekend dernier - last weekend Le mois dernier - last month L'été dernière - last summer Pendant le confinement - during lockdown



9.10 Leisure and Healthy Living FRENCH

ACTIVIT	Y VERBS
aller	To go
jouer	To play
manger	To eat
visiter / rendre visite	To visit / pay a visit
faire	To do
danser	To dance
boire	To drink
regarder	To watch
écouter	To listen
lire	To read
acheter	To buy
finir	To finish
écrire	To write
dormir	To sleep
nader	To swim
rester	To stay
voyager	To travel
chanter	To sing
envoyer des textos	To text
contacter	To contact
appeler	To call
cuisiner	To cook
aider	To help
travailler	To work
se relaxer	To relax
se reposer	To rest

INTENSIFIERS			
très	very	extrêmement	extremely
tellement	SO	trop	too
assez	quite	vraiment	really
un peu	a bit	pas du tout	not at all

	HEALTHY	LIVING VERBS
	se coucher	To go to bed
	avoir envie de	To fancy (feel like)
唬	trouver (un emploi)	To get a job
ズ	courir	To run
(S)	se droguer	To take drugs
	se soûler	To get drunk
ď	se sentir bien/mal	To feel well/unwell
ě.	être au régime	To be on a diet
Ġ	être en forme	To be in shape
707	garder la forme	To stay in shape
0	eviter	To avoid
	dfumer −	To smoke
	essayer (+ infinitive)	To try (to do something)
سے	se lever	To get up
8	s'inquiéter	To worry
_	se sentir	To feel
8	avoir mal	To have pain
69	avoir sommeil	To feel sleepy
•	surmonter	To overcome

LES GENS	PEOPLE
avec	with
mes ami(e)s	my friends
mon frère	my brother
ma sœur	my sister
mes parents	my parents
ma famille	mi family
seul	alone

ENDROITS	PLACES
Chez moi	At my home
Chez mon ami(e)	At my friend's house
Dans ma chambre	In my bedroom
Dans le salon	In the living room
Dans le jardín	In the garden
Dans mon quatier	In my neighbourhood
En Angleterre	In England
À l'étranger	Abroad
En ville	In town
À la campagne	In the countryside
À la montagne	In the mountains
Au bord de la mer	At the coast

ADJECTIVES		
relaxante	relaxing	
agréable	pleasant	
sérieux / sérieuse	serious	
sportif / sportive	sporty	
enrichissant / enrichissante	enriching	
amusant / amusante	fun	
passionnant / passionnante	exciting	
rapide	quick	
énervant / énervante	annoying	
gratifiant / gratifiante	rewarding	
ennuyeux / ennuyeuse	boring	
facile	easy	
difficile	difficult	
intéressant / intéressante	interesting	
bon/ bonne pour la santé	healthy	
mauvais/ mauvaise pour la santé	unhealthy	

Importance of oceans:



The air we breathe

Produce 50% of the world's oxygen.



Climate regulation

Oceans are important to transfer heat from the equator to poles.



Job creation/economy

350 million jobs globally are linked to the ocean.



Food

1 billion people depend on fish for their protein.



Carbon store

Oceans store 5 x more carbon than the rainforests.

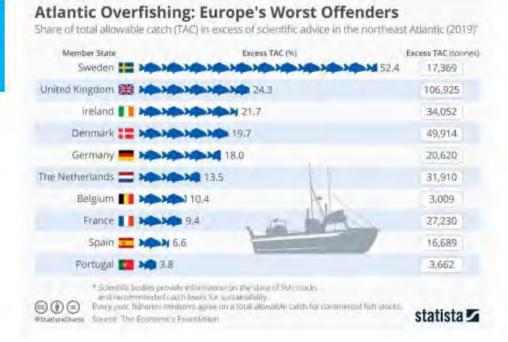


Great Pacific Garbage Patch

- + largest of five offshore plastic accumulation zones.
- + each patch is formed within a *gyre*.
- + gyre = a large circular ocean current
- + 1.15 2.41 million tonnes of plastic enter the ocean each year from rivers.
- + more than 50% of this plastic does not sink as it is less dense than water.
- + the plastics are trapped in the currents and don't leave until they are broken down into smaller microplastics.
- + microplastics find their way into the food chain.

Year 9 Geography Oceans (1)

Overfishing	fishing catching more fish than the natural system can replace.	
Sustainable fishing	Respecting habitats and leaving enough fish in the ocean.	
1900	Oceans contained 6 times more fish than today.	
58%	Oceans fished to their limits	
31%	Oceans over-fished	
\$35 billion	Amount spent by governments globally to support fishing	



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.

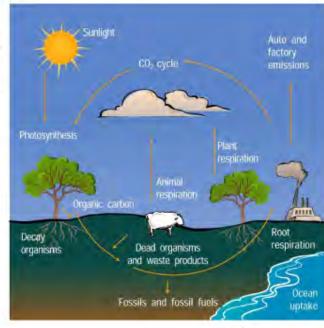
IMPACTS OF ACIDIFICATION

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
Agriculture – methane (greenhouse gas) released from rice cultivation and cattle.	Volcanoes – big eruptions can change the earths climate. The material released can prevent solar energy reaching the earth.
Deforestation – 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.	Orbital Theory – 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.
Fossil Fuels – 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)

9.10 Leisure and heathy living vocabulary list

Die Aktivitäten	<u>activities</u>
gehen/fahren	to go
spielen	to play
essen	to eat
besuchen	to visit
machen	to do
tanzen	to dance
trinken	to drink
fernsehen	to watch TV
hören	to listen
lesen	to read
kaufen	to buy
beenden	to finish
sehen	to see
schreiben	to write
schlafen	to sleep
schwimmen	to swim
treffen	to meet
reisen	to travel
singen	to sing
SMS schicken	to text
kontaktieren	to contact
anrufen	to call/phone
telefonieren	To telephone
kochen	to cook
herunterladen	to download
arbeiten	to work
helfen	to help
nachdenken	to meditate
sich entspannen	to relax
sich ausruhen	to rest
	1

Orte	Places
Zu Hause	At home
bei meinem Freund	At my friend's house
bei meinem Vater	At my dad's
bei meiner Mutter	At my mum's
bei meinen Großeltern	At my grand-parents'
in meinem Schlafzimmer	In my room
im Wohnzimmer	In the living room
im Garten	In the garden
in meiner Gegend	In my neighbourhood
in England	In England
im Ausland	Abroad
in der Stadt	In town
auf dem Land	In the countryside
in den Bergen	In the mountains
an der Küste	By the seaside
<u>Leute</u>	<u>People</u>
mit	With
Meine Freunde	My friends
Mein Bruder	My brother
Meine Schwester	My sister
Meine Eltern	My parents
Meine Familie	My family
allein	Alone
Intensifiers	
sehr- very zu- too	
so- so wirklich - really	
So so triitingii regiry	

ziemlich – quite äußerst – extremely ein bisschen – a bit, überhaupt nicht - not at all

<u>Adjektive</u>	<u>Adjectives</u>
nett	Kind
angenehm	Pleasant
froh/glücklich	Нарру
geschwätzig	Chatty
schön	Beautiful
lustig	Funny
niedlich/süß	Cute
hübsch/schön	Pretty
sauber	Clean
perfekt	Perfect
schnell	Fast
reich	Rich
klug	clever
schüchtern	Shy
fleißig	Hard working
traurig	Sad
langweilig	Boring
nervig	Annoying
ernst	Serious
einfach	Easy
schwer	Difficult
streng	Strict
hässlich	Ugly
laut	Noisy
unhöflich	Rude
schrecklich	Horrible/Awful
faul	Lazy
sportlich	Sporty
bereichernd	Enriching
interessant	Interesting
alt	Old
entspannend	Relaxing
gesund	Healthy
ungesund	unhealthy

Healthy living key verbs	
ins Bett gehen	to go to bed
Lust haben	to fancy, to feel like
laufen	to run
Drogen nehmen	to take drugs
sich betrinken	to get drunk
sich gut/krank fühlen	to feel well/ill
auf Diät sein	to be on a diet
Fit sein	to be fit
vermeiden	to avoid
rauchen	to smoke
versuchen	to try to
aufstehen	to get up
in Form bleiben	to keep fit
sich sorgen	to worry
schmecken/probieren	to try, to taste,
sich fühlen	to feel
überwinden	to overcome
Schmerzen haben	to have a pain (in)
müde sein	to be tired



To go

fahre

fährst

fährt

fahrt

fahren

fahren

opinions justifications describing and comparing

machen

mache

machst

macht

machen

macht

machen

To do

spielen

To play

spiele

spielst

spielt

spielt

spielen

spielen

Verbs and the present tense in German

The infinitive

When you look up a verb in the dictionary, you find its original, unchanged form which is called the <u>infinitive</u> (essen, trinken, spielen, sein, feiern, gehen etc.).

Forming the present tense in German

German and the future tense

(I do or I am doing - German does not have a separate '-ing' form)

Take the infinitive – knock off the ending (en) and then add the ending relevant to the person you are talking about. Regular verbs follow the same pattern as <u>'machen'</u>.

*Important! There are some key irregulars to learn which don't follow this pattern – sein and fahren (as shown here) and fahren are really important!

			-			German
Verbe	200	the	nact	tonco	ın	(-erman
V = 1 D3	allu		Past	cense		Jelliali

ich(l)

du (you)

wir (we)

(they)

ihr (you all)

er/sie (he/she)

Sie (you polite)/sie

Take the present tense of 'haben' or 'sein' + the past participle.

You can talk about the future 2 different ways 1. Use a future time phrase and the present tense Nächste Woche spiele ich Tennis= Next week I am going to play tennis. 2. Use a part of 'werden' + an infinitive Morgan worden wir ins King gebon. Tomorrow wa wi

Morgen werden wir ins Kino gehen. Tomorrow we will go to the cinema

Es wird toll sein = it will be great

Verbs to do with movement	(gehen/	fahren	etc)	tal	Κе
sein					

naben – to nave	sem – to be
ich habe	ich bin
du hast	du bist
er/sie/es hat	er/sie/es ist

wir haben wir sind ihr habt ihr seid Sie haben Sie sind sie haben sie sind

ich werde	l will
du wirst	You (sing) will
er/sie/es wird	He /she/it will
wir werden	We will
ihr werdet	You (lot) are going
Sie/sie werden	You polite/They will

werden (will/to be going to)

Ich habe Tennis gespielt = I (have) played tennis Ich bin ins Kino gegangen = I went to the cinema

9.10 Leisure and heathy living

3 time frames Infinitives Time phrases

opinions justifications



1.Expressing FUTURE intentions:

Ich habe vor, zu + infinitive (I plan to/ I intend to ...) Ich möchte + infinitive (I would like to...)

2.Using gern/nicht gern/lieber:

These phrases are used with a verb

Ich wohne gern in Newcastle - I like living in Newcastle.

Gehst du gern ins Kino? - Do you like going to the cinema?

Ich spiele nicht gern Tischtennis, weil es langweilig ist. - I don't like playing football because it is boring

Ich lese lieber Bücher = I prefer reading books

3.Opinions

Ich mag - I like/ich mag...nicht

Ich liebe- I love

Ich interessiere mich für = I am

interested in

Ich bin dagegen – I am against

Ich hasse - I hate

Ich kann...nicht leiden - I can't

stand

....gefällt mir = I like.....

4. Justification

denn – because

weil - because

deshalb- therefore/so

dennoch/trotzdem - nevertheless

obwohl = although

5.Comparisons

Add 'er' to the adjective. You can't add the word 'mehr' = more.

Er ist kleiner = he is smaller es ist billiger = it is cheaper

Exceptions are besser (better)/größer(bigger)/älter(older)

Superlative

You add an '-ste' to the adjective, sometimes '-este' to make it

easier to say. Fred ist der Kleinste = Fred is the

smallest. Ellie ist die Lauteste

Comparing Things

Joe ist älter als Fred = Joe is older than Fred

Joe ist weniger alt als Fred = Joe is less old than Fred

Joe ist so alt wie Fred = Joe is as old as Fred

Joe ist genauso alt wie Fred = Joe is just as old as Fred

7.Time phrases

normalerweise- normally dann - then gewöhnlich - usually selten - rarely

neulich - recently nächstes Wochenende- next weekend letzten Sommer - last summer manchmal – sometimes nächste Woche - next week

letztes Wochenende - last weekend

letzten Monat - last month

während Lockdown - during lockdown

Key Events

	NEY EVEIRS
1	9th November 1918 - The leader of Germany, Kaiser Wilhelm, abdicated. A democratic government set up, the Weimar Republic.
2	11th November 1918 - Germany signed armistice agreement.
3	28th June 1919 – The Treaty of Versailles is signed deciding the terms of peace between the Allies and Germany.
4	1923 – Germany was struggling to pay the reparations to France. They printed more money leading to hyperinflation. The USA provide a loan to help them recover.
5	November 1923 – The Munich Putsch – The NSDAP try to take over the Weimar Government, they fail and Hitler is sent to prison.
6	October 1929 – The Wall Street Crash, the American stock market collapsed and needed their loans back from Germany.
7	30th January 1933 – Hitler is named chancellor of Germany.
8	February 1933 – The Reichstag Fire was blamed a Dutch communist and used as propaganda, support gained for NSDAP.
9	23'd March 1933 - The Enabling Act was passed which meant Hitler was able to make laws without consulting the Reichstag.
10	30th June 1934 - The Night of the Long Knives - purge of SA leadership who threatened Hitler and other political opponents.
11	2 nd August 1934 – President Hindenburg died. Hitler combines the role of chancellor and president and becomes Führer (leader).



History - Year 9 Knowledge Organiser

Term 3

What was life like in Nazi Germany?

Key Skills

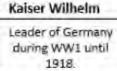
12	Causation	Explaining how events are caused by developments that came before.
13	Consequence	The result or effect of an event.
14	Source Analysis	Nature: What is the type of source? Content: What does it tell us? Origin: Who wrote it? When? Where? Purpose: Why was the source made?

		Ney Jellio
15	peace armistice	a document which is signed to halt fighting whilst peace negotiations take place.
16	November criminals	the name given to the men who signed the peace armistice.
17	abdication	Renouncing (giving up) the throne.
18	Treaty of Versailles	A treaty which formally ended WWI.
19	reparations	Germany was to made to pay £6.6 billion reparations for damage during the war.
20 NSDAP National Socialist German Workers' P Was known as the Nazi Party.		National Socialist German Workers' Party – Was known as the Nazi Party.
21	Weimar Republic	The democratic government elected after the end of WWI.
22	chancellor	The head of the German government

Key Terms

Key Groups/People







Adolf Hitler German politician and leader of the Nazi Party.



Joseph Goebbels Nazi minister for propaganda 1933 -1945.



President of Germany from 1925 -1934.



Protectors of Nazi leaders formed in 1921.

SA



23

Reichstag

propaganda

Third Reich

Kirche

Kinder, Küche and

Established 1925 to protect Hitler & then policed Third Reich.



The Nazi's secret. police force.



appointed by the president.

political cause/point of view.

The name of Germany's parliament.

Information, can be biased, that promotes a

The name of the Nazi regime (government).

'Children, Kitchen, Church.' Nazi's asked

women to do these instead of work.

Hitler Youth The HJ, boys would join the main group from age 14.



League of German Maidens The female equivalent of the HI they would join from age 14.

Key Words

Frequency: Total. Mean: Total of data divided by the number of pieces of

data.

Mode: The value that occurs most frequently.

Median: Middle number when they are in order. Range: Difference

between the largest

and smallest values.

Examples

5, 9, 9, 9, 11) 12, 13, 15, 16

Averages

$$Mean = \frac{5+9+9+9+11+12+13+15+16}{9} = \frac{99}{9} = 11$$

Median = 11 (The middle number shown above)

Mode = 9 (This number occurs most often)

Measure of Spread

Range = 16 - 5 = 11

(A bigger range means the data is more spread out)

Advantages and Disadvantages

Average	Advantage	Disadvantage There can be more than one mode or even no mode	
Mode	Can be used for qualitative data Easy to obtain		
Median	Not affected by very large or very small values	Can be time consuming when there is a lot of data	
Mean	Takes into account all of the data	Very small or very large values affects the mean	

What you need to know:

Averages from Frequency Tables

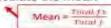
a) Find the mean of this data

Goals Scored (x)	Frequency (f)	fx
0	2	0 * 2 = 0
1	2	1 * 2 = 2
2	5	2 * 5 = 10
. 3	1	3 x 1 = 3
Total	10	15

Step 1: calculate the total frequency

Step 2: calculate $f \times x$

Step 4: calculate the mean



$$\frac{Total\ fx}{Total\ f} = \frac{15}{10} = 1.5\ goals$$

b) Find the mode

The mode is the one with the highest frequency

Total frequency + 1

Highest frequency = 5

Mode = 2 goals

Median value =

c) Find the median

$$\frac{11}{2} = 5.5th \ value$$

add the frequency column until you reach the value in-between the 5th and 6th value

Median = 2 goals

- d) Find the range
- Highest number of goals = 3
- Smallest number of goals = 0

Range = 3 - 0 = 3

Averages from Grouped Data

a) Estimate the mean of this data

(L cm)	Frequency (f)	Midpoint (x)	fx
$0 < L \le 10$	10	- 5	10×5=50
$10 < L \le 20$	15	15	15 / 15 - 225
$20 < L \le 30$	23	25	23 * 25 = 575
$30 < L \le 40$	7	35	7×85+245
Total	55		1095

Step 1: calculate the total frequency Step 2: find the midpoint of each group

Step 3: calculate $f \times x$

Step 4: calculate the mean Mean = Foral f.s.

Fotal frequency +1

 $\frac{Total\ fx}{Total\ f} = \frac{1095}{55} = 19.9$ cm

b) Identify the modal class from this data set

Modal Class is $20 < L \le 30$

Modal class = the group that has the highest frequency

Median value =

c) Identify the group in which the median would lie

 $\frac{56}{2}$ = 28th value add the frequency column until you reach the 28th value

Median is in the group $20 < x \le 30$

For grouped data, the mean can only be an estimate as we do not know the exact values in each group..

Types of data

Qualitative data: data collected that is described in words not numbers. e.g. race, hair colour, ethnicity.

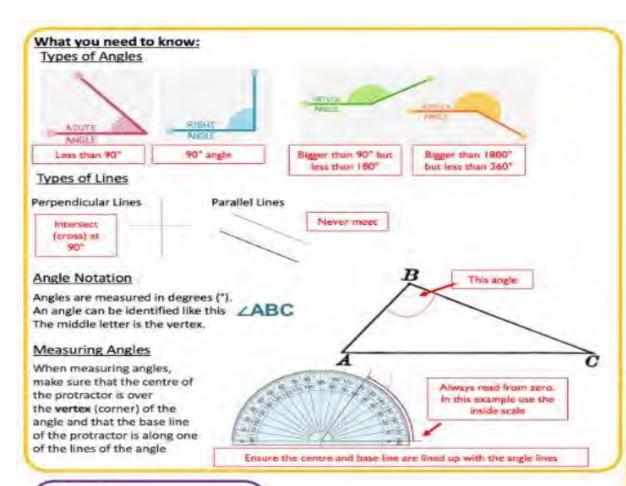
Quantitative data: this is the collection of numerical data that is either discrete or continuous.

Discrete data: numerical data that is categorised into a finite number of classifications.

e.g. number of siblings in a family, shoe size, .

Continuous data: numerical data that can take any value. This data is usually measured on a large number scale.

e.g. height, weight, time, capacity.



Key Terms:

Line segment – a line between two points

Point - An exact location.

Intersecting – where two or more lines cross, their common point.

Angle – the amount of turn between two lines and their common point. Vertically Opposite – angles formed when two or more straight lines cross at a point.

Parallel – always the same distance apart and never touching.

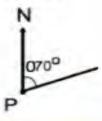
Vertex (plural Vertices) - a corner

Perpendicular - at right angles

Key Concepts

Scales are used to reduce real world dimensions to a useable size.

A bearing is an angle, measured clockwise from the north direction. It is given as a 3 digit number.

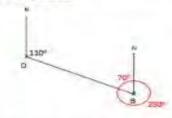


Key Words Scale Bearing Clockwise North



Examples

The diagram shows the position of a boat B and dock D.



The scale of the diagram is 1cm to 5km.

 a) Calculate the real distance between the boat and the dock.
 6 cm = 6 × 5

$$=30km$$

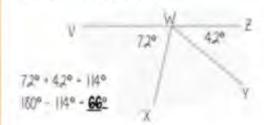
- State the bearing of the boat from the dock. 110"
- c) Calculate the bearing of the dock from the dock. 100° - 110° = 70° because the angles are cointerior 360° - 70° = 290° because angles around a point equal 360°

What you need to know:

Angles on a straight line

Angles on a straight line add up to 180°

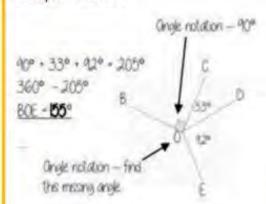
Example - Find angle XWY

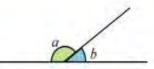


Angles around a point

Angles around a point add up to 360°

Example - Find BOE





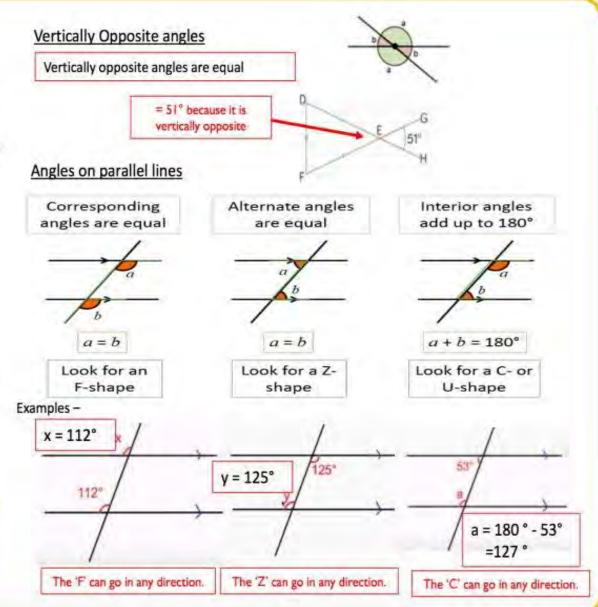
 $a+b=180^{\circ}$ because there are 180° in a half turn.



 $a+b+c+d=360^{\circ}$ because there are 360° in a full turn.

TIP -

Sometimes you will need to use more than one angle fact to solve a problem



Year 9 Terms 3 & 4: Music for Moving Image

Key Words

Ostinato

Syncopation

Sequence

Imitation

Inversion

Pedal Note

Dissonance

Chromaticism

Cluster Chords

Leitmotif

Mickey Mousing

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)



PE

Training Type	Example	Component of Fitness Used	Sporting Example
Continuous Training Definition - Training at a steady speed without rest. Improves cardiovascular endurance, it will also make the heart bigger and stronger. Needs to be between 20 minutes and 2 hours.	Continuously running for 1 hour at a steady speed.	Cardiovascular Endurance	Marathon running
Fartlek Training Definition – Training that requires a change in speed and terrain. Often known as 'speed play'.	Cross-country running with sprint activities every so often.	Components of fitness used – Aerobic endurance or anaerobic endurance depending on the intensity.	Where it is used in sport – Many team sport because of the constant change of speed and long periods of moderate activity. Also cross country running.
Interval Training Definition – Intervals of work and intervals of rest. You need to work at 90-100% of maximum intensity to improve anaerobic fitness. You need to work at 60-75% of maximum intensity to improve aerobic fitness.	the aerobic system – there should be		Where it is used in sport – Can be used for team sports such as hockey and football. Or it can be used for athletics running events.
Circuit Training Definition — A series of exercises arranged in a particular way called a circuit. The resistance used is mainly body weight and each exercise focuses on a different muscle group. There is a rest period between each exercise. Circuit training can also incorporate skills activities, such as a football player may include dribbling, passing, shuttle runs and shooting.	Press ups, star jumps, dips, squats, sit ups, skipping, crunches, chin ups.	Components of fitness used – Muscular endurance.	Where it is used in sport – Rowers and boxers need muscular endurance to last the duration.
Weight Training Definition – Involves progressive resistance using a number of repetitions and sets depending on the strength required.	For maximum strength you need a high weight but low repetitions. For muscular endurance you need a low weight but high repetitions.	Components of fitness used – Muscular strength and muscular endurance	Where it is used in sport — Weight lifters and rugby players need maximum strength. Swimmers and cyclists need strength endurance.
Plyometrica Definition – Involves rapid and repeated stretching and contracting of muscles, designed to increase strength and power. If the muscles have previously been stretched they tend to generate more force when contracting.	Example – In-depth jumping is when an athlete jumps on to and off boxes. It can involve any bounding, hopping and jumping of the muscles.	Components of fitness used – Muscular strength and power.	Where it is used in sport – Any events that involve sprinting, throwing and jumping.

War: When people disagree Knowledge Organiser



NEI	ED 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:	Who or what are the casualties of conflict? Estimated number of military and civilian fatalities in major UK conflicts since World War Two	The main casualties of war include:
 attack or invade another state, to gain territory or resources resist such an attack or invasion by an aggressor protect another state from attack by an aggressor impose domination or political change on another state, or to resist such domination challenge a threat to 'essential national interests' by another state counter perceived threats from a different ideology, religion or ethnic group defend the national honour when under threat War can also occur internally within a state between organised groups. This is known as civil war. 	1,124 1,400 2,64 3 2,60 3 2	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

1,124 1,124 244 24 24	**********	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
	28,500 110,500 ~ 121,500	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	Matthew 5:44 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 against unuself	Non-violent	Violent		
	The word of justice in front of the oppressive ruler	To defend, not attack		
Spiritual	Verbal	Physical (military)		
Againsi yoursell	Against the oppressive ruler	Against those who fight you		

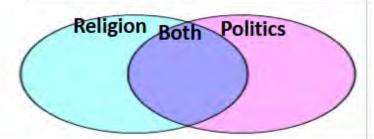




What happens when people disagree?

Key Word		Definition
Persecution	横头数	Cruel or unfair treatment, especially because of race or religious or political ballats.
Schism	22	A tout or split in roligion it is when the rolligion splits into opposing groups.
Denomination or sect	5	A branch or group within a religion. For example, Suns and Shia is Islam, or Catholic and Protestant in Christianity.
Islamophobia	HO DIONE	The tear at, learned at, or projectice against the religion at Islam or Muslims in general.
Homophobia		Dislike of or projudice against gay people.
Holocaust		Also known as the Stooth, 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

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

Place these words on a venn diagram. Voting Prayer Crime and punishment Beliefs Worship Government God leaders Laws

Jihad: The struggle of Muslims to make

themselves and their society pleasing to Allah.

society, themselves, attagolic

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.



MISSIONARY = SOMEONE SENT ON A RELIGIOUS MISSION TO PROMOTE CHRISTIANITY IN ANOTHER COUNTRY OR REGION

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...

Surat 44-Maridan 5:32

ip

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'

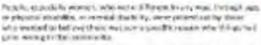
What Women is the Belleting over

When I've again here being been been been being bei gibe the Bettie of Name by the LOW!

Where P.East Anglia I. Copiesis

By Million P. By The Life Hotale Indicate on No. 2 may collect Glattice Hostin, The White Boots General

What hassened?



Ethymere naunet of being whiten A were put or time if few against the making market

NATIVE AMERICAN PERSECUTION

What Pulling Statement of East

Wheel 1831-1838

Milwood Speakborn Limited Stooms

By Whorl' Special greenway

What had prompt ?

This period of American history is strong as The Trail of Years'



the carried botto government limed statio two basics, may have their increations in the Southern United States in Indian Sentencial Coloborat, Escales from the Chryslem, 60 corrupts, Chindanan, Changes, and for invalid to be a some marched at gur point across. Specification of arrives by attached to the

AZTECS PERSECUTION

Who? The Active Empire-

When? February 1529 - August 13.

Where? Arte: Despite (Mindert Star Mexicol

By Wheel? Spanish Conquiredown



Between 1519 and 1521 the Spanish, under the leadership of conquistador Ferman Cortés, conquered the Astec Empre-

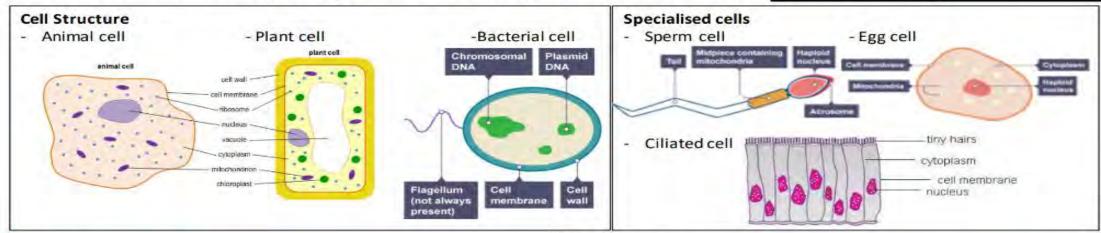
Cortex acrowd with pround 500 mers, 55 homes, and some carecon. They contured the Arter, King, Membersons II. & killed him, Fighting. twgsn & a second Acras king was killed. The Spanish conquestactives had the captal ety frenchthian (non Mexico City).





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

CPG F & H tier: pages 11-14.



Fine Adjustment

Course Adjustment

Making Microscope Slides

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

Objective Power Lens

THY.

(so there are no bubbles)

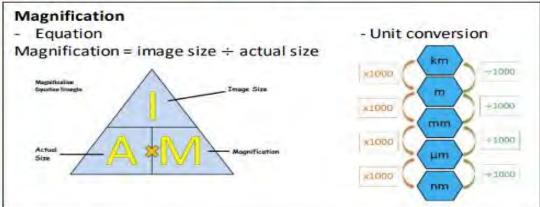
- 5. Put the slide on the stage and secure using the clips
- 6. Choose the lowest powered objective lens
- Use the coarse focusing knob to move the stage up and down while looking through the eyepiece

(to focus the image)

- 8. Adjust the focus using the fine adjustment knob
- 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



Light vs. Electron Microscopes

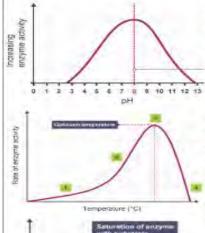
Light microscope	Electron microscope
Inexpensive to purchase and operate	Expensive to purchase and operate
Simple and easy specimen preparation	Complex and lengthy specimen preparation
Magnifies up to 2000x	Magnifies over 500 000×
Specimens may be living or dead	Specimens are dead, and must be fixed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

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

Enzyme Structure Substrates

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



Substrate concentration

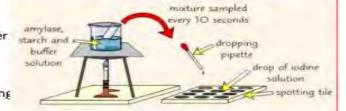
As the enzyme experiences conditions away from the optimum the shape of the active site begins to change meaning the substrate can't fit as well and less reactions will occur.

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.

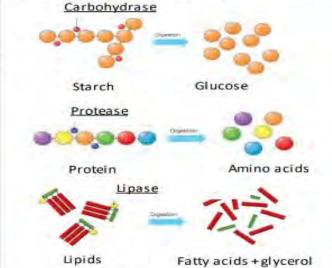
As more substrate is added the more collisions there will be with available enzymes and more reactions, up until a certain (saturation point), where all of the enzymes are already working at their maximum rate.

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

1. Prepare sucrose solutions of 5 concentrations

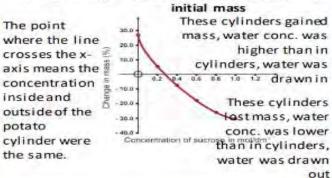
CPG F & H tier: pages 15-17.

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

Results

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 | Chemistry Topic 3 - Chemical Changes | Required Knowledge | CGP F & H tier: pages 104 - 108

Acids (p):

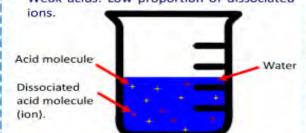
- · Source of hydrogen ions (H+) when in solution.
- pH 1 pH 6 (neutral = pH 7)
- · Strong acids are corrosive and can be harmful to humans.
- · Examples: Vinegar: citrus fruits: bee stings.

Alkalis & bases (p): pH 8 - pH 14.

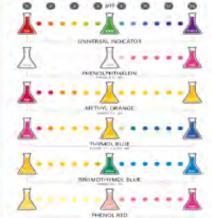
- Alkalis are sources of hydroxide ions (OH-) when in solution.
- · Bases are any substances that react with acids to form salt and water only.
- All alkalis are soluble bases.
- Examples: Wasp stings; bleach; indigestion tablets; toothpaste.

Acid strength (p):

- . The pH scale shows the strength of an acid (or alkali).
- . The strength of an acid is determined by the proportion of ions which dissociate (split) in solution, e.g. $HCl \rightarrow H^+ + Cl^-$.
- Strong acids: High proportion of dissociated
- Weak acids: Low proportion of dissociated ions.

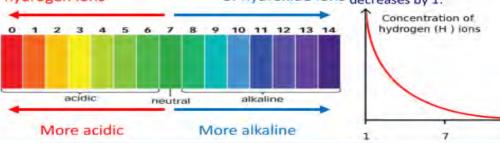


Indicators (p): Different chemicals can be used to test the pH of solutions.



pH scale (p): A measure of the proportion of hydrogen ions or hydroxide ions in a solution.

As hydrogen ion concentration Increasing concentration Increasing concentration increases 10x, pH of the solution of hydroxide ions decreases by 1. of hydrogen ions



Neutralisation (p): Chemical reaction between acid (pH1-6) and alkali (pH8-14) produces a salt and water (neutral at pH7).

- Neutralisation happens because of reactions due to ionic charges of atoms.
- Acids and alkalis dissociate (split) into ions (charged atoms) in solution.
 - Hydrochloric acid: HCl → H⁺ + Cl⁻
 - Sodium hydroxide (alkali): NaOH → Na⁺ + OH⁻
- The hydrogen and hydroxide ions react to form water: H⁺ + OH⁻ → H₂O
- The sodium and chlorine atoms react to form sodium chloride (salt): $Na^+ + Cl^- \rightarrow$ NaCL

Acid concentration (p):

- · Acids are sources of hydrogen ions when in solution.
- The concentration of the solution is determined by the amount of acid dissolved in a volume of solvent.
- Measured in moles (e.g. 1M,
- Concentrated acid: Large amount of acid per litre of solvent.
- Dilute acid: Small amount of acid per litre of solvent.

Soluble salts & titration (p):

- When a neutralisation reaction produces a soluble salt, it can be extracted by crystallization (evaporating the solvent).
- · To create a neutral product (pH7), exactly the right amount of acid and alkali must be used.
- · Titration measures exact amounts of acid added to an alkali.
- · Single-colour indicators show clearly when pH7 is reached.

buret standardized stand sample to be titrated (with indicator) Erlenmeyer

Acids & metals (p): Acid + metal → salt + hydrogen

- · Evidence: Effervescence, or the production of hydrogen bubbles. Testing with a lit splint should produce a squeaky pop.
- · Strength of reaction depends on metal's place in reactivity
- Magnesium + sulfuric acid → magnesium sulfate + hydrogen
- $Mg(s) + H_2SO_4(aq) \rightarrow MgSO_4(aq) + H_2(q)$

Acids & carbonates (p): Acid + metal carbonate → salt + water + carbon dioxide

14

- . Evidence: Bubbling the carbon dioxide through limewater will turn the limewater cloudy.
- E.g.: Copper carbonate + sulfuric acid → copper sulfate + water + carbon dioxide
- CuCO₃(s) + H₂SO₄(aq) → CuSO₄(aq) + H₂O(l) + CO₂(g)

EDEXCEL 9-1 Combined Science | Chemistry Topic 3 - Chemical Changes | Required Knowledge

Insoluble salts & precipitates (p):

- · Some salts produced by an acid-alkali reaction are not soluble - they do not dissolve in any solvents.
- These are called precipitation reactions, as they cause precipitate to form.
- Precipitate is insoluble particles of solid which form in the solvent.
- Preparation of insoluble salts:
- 1. Mix the two solutions;
- 2. Filter the mixture to remove most of the precipitate;
- 3. Rinse the beaker with distilled water and pass this through the filter to retain any remaining precipitate.

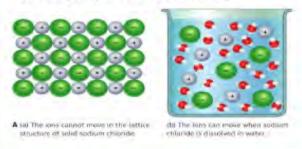
Soluble	Insoluble
All nitrates	frone
Most sulfates	Lead sulfate, parium sulfate and calcium sulfate
Most chlorides, bramides and todides	Silver chloride, silver bromide, silver iudide, lead chloride, lead bromide, lead iodide
Sodium carbonate, potassium carbonate, ammonium carbonate	Most other carbonates
Sodium hydroxide, potassium hydroxide, ammonium hydroxide	Most other hydraxides

State symbol (s) indicates a precipitate. Example: reaction of limewater with carbon dioxide:

Calcium hydroxide (limewater) + carbon dioxide → calcium carbonate + water $Ca(OH)_2(aq) + CO_2(q) \rightarrow CaCO_3(s) + H_2O(l)$

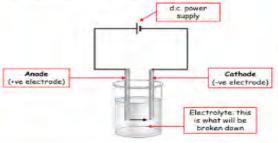
Ions & electrolytes (p):

- · Atoms which have lost or gained electrons. Charged (positive or negative).
- Ionic solids dissolve into free ions in water.
- Any liquid with free ions in solution is called an electrolyte.
- Electrolytes can conduct electricity.



Electrolysis (p):

- · Means of separating out ionically-bonded compounds.
- Negative ions collect at the anode (positive electrical) to add text
- · Positive ions collect at the cathode (negative electrode).



Naming salts (p):

At the cathode, positive ions gain electrons (reduction).

Example:

Zinc chloride electrolyte

H - Reactions at electrodes (p):

Cathode reaction: Zn²⁺ + 2e⁻ → Zn

At the anode, negative ions lose electrons (oxidation).

Anode reaction: 2Cl⁻ →Cl₂ + 2e⁻

· OIL RIG: Oxidation Is Loss, Reduction Is Gain.

Acid Salt formed Hydrochloric Acid → Chloride Sulfuric Acid → Sulfate Nitric Acid Nitrate

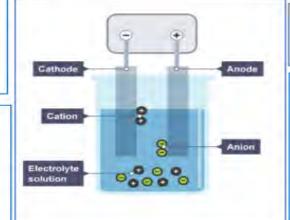
H - Ionic equations (p):

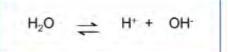
- All salts are ionically bonded.
- Ionic equations show only the ions which change.
- For example:
 - Lead nitrate + sodium chloride → lead chloride + sodium nitrate
- Full equation: $Pb(NO_3)_2(aq) + 2NaCl(aq) \rightarrow PbCl_2(s) + 2NaNO_3(aq)$
- Ionic equation: $Pb^{2+}(aq) + 2Cl^{-} \rightarrow PbCl_{2}(s)$
- All ions which do not change are called spectator ions.

Acids & metal oxides / metal hydroxides (p):

- Metal oxide + acid → salt + water
- E.g.: Copper (II) oxide + hydrochloric acid → copper chloride + water $CuO + 2HCl \rightarrow CuCl_2 + H_2O$
- Metal hydroxide + acid → salt + water
- E.g.: Calcium hydroxide + nitric acid → calcium nitrate + water $Ca(OH)_2 + 2HNO_3 \rightarrow Ca(NO_3)_2 + 2H_2O$

Negative ion	Element given off at anode
Chloride, Cl	Chlorine, Cl ₂
Bromide, Br	Bromine, Br ₂
lodide, I	lodine, I ₂
Sulfate, SO ₄ ²	Oxygen, O ₂





CGP F & H tier: pages 109 -112

State symbols (p):

- · In chemical equations, state symbols can be included after every chemical to show the state (solid, liquid, gas) of the chemical.
- (s) = solid
- (I) = liquid
- (g) = gas
- (aq) = in solution / dissolved.

EDEXCEL 9-1 Combined Science | Chemistry Topic 4 - Extracting Metals and Equilibria | Required Knowledge

CGP F & H tier: pages 114 - 117

Oxidisation (Pg 114)

- A reaction involving oxygen.
- Oxidisation is the addition of oxygen, reduction is the loss of oxygen.

E.g. fe 0 = 300 -> 2Fe + 300

- Iron mids is retirent to tea (its oragen is removed).
- Curbon responsible is neighbord to curbon directle (see conggen in wished).

Reactivity (Pg 114)

- Shows how easily metals are oxidised.
- A reactivity series shows metals in order of reactivity.



- Also a measurement of saying how easily a metal atom gives up electrons to become an ion.
- More reactive = gives up electrons more easily.

Oxidisation & reduction (Pg 116)

- Oxidisation is also the loss of electrons.
- Reduction is the gain of electrons.

When dealing
with electrons:
Coxidation Is Loss,
Reduction Is Gain.

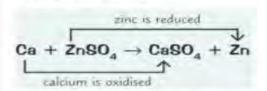
Metal reactions (Pg 115)

 Metals with different reactivity react to acids and water in different ways:

Metal	Reaction with water	remediate with disase and	Tendency of metal assure re form partitions	
Difference de	react were cold water	real	- A	
sodium	to form hydrogen and a metal hydroxide	violently	4000	
raidum	Nunctar Lièmonine	react to form hydrogen and a sall solution	1	
migresom	react very slowly. If at all, with cold water but much with steam to form findingso and		3	
manimum			an joint	
Zinc				
Deser	a cereant avide		등 등	
copper	do not react with cold	do not meet	88	
sthere	WARRED STORY		8.5	
goto			T E	

Displacement reactions (Pg 116)

- Metals differently with metals salts, depending on the reactivity of the metals.
- The more reactive element takes the place of the less reactive element.
- The more reactive metal loses electrons (is oxidised) while the more reactive metals gains electrons (is reduced).
- Remember OILRIG.



 Calcium is more reactive than zinc, and takes it's place in the metals salt to become calcium sulfate leaving pure zinc on it's own.

Ore (Pg 117)

 A rock containing enough metal in in to make it economically worthwhile to extract the metal.

Metal extraction (Pg 117)

- Unreactive metals, e.g. gold, removed from the Earth's crust in pure form.
- More reactive metals form metals compounds, e.g. bauxite (aluminium oxide) the source of aluminium.
- The method for extracting metals from ores depends on the reactivity of the metal.

Mesol	Method b) extraction
potassium	stretrolysis of a molten
loud sort	compound
calcount	
тирненит	
uluminum	
(castrari)	
zinc	had an one with carbon
tion	
ropper	
	found at the uncommonent element.
post	

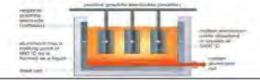
Method 1: Reduction with carbon (Pg 117)

- The ore is reduced, the carbon replacing the less reactive metals, leaving pure metals behind.
- Iron oxide (haematite) is the source of pure iron.

2Fe ₂ O ₃	+	30	-	4Fe	+	300
fron oxide	+	carbon	-	iron	+	carbon dioxida

Method 2: Electrolysis (Pg 118)

 The ore is melted and an electrical current passed through it. The pure metal forms on the negative electrode.



Method 3: Biological methods (Pg 118)

- Bioleaching uses bacteria grown on copper ore which produce a solution containing the metals ions.
- The copper is extracted by reduction with iron and purified by electrolysis.
- Phytoextraction uses plants that grow and absorb the metal compounds. When burned they form an ash which the metal can be extracted from.
- Advantages/disadvantages:



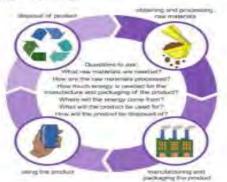
Recycling (Pg 119)

- Reusing materials already extracted from the Earth is cheaper and has environmental benefits.
- Recycling aluminium cans is 95% more energy efficient per tonne over extracting it from ore.
- Prevents environmental damage from further mining
- Prevents landfill of cans.

EDEXCEL 9-1 Combined Science | Chemistry Topic 4 - Extracting Metals and Equilibria | Required Knowledge | CGP F & H tier: pages 118 -120

Life cycle assessments

- New planned products are assessed using and LCA.
- Each aspect is considered to see if it impacts the environment too significantly.



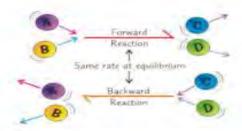
Example: Car B is the most logical choice to manufacture based on the statistics considered...

Car	CO, enersipes ((prese)			Expected lifespan of product (years)
A	17	to 720	8.2	46
8	25	5900	60	17
-	34	15 (210)	95	17.

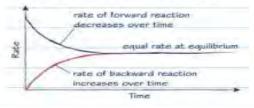
- Least solid waste and water used.
- Second best for CO2 emissions
- Longest lifespan

Dynamic Equilibrium

- In a closed system, reversible reactions reach dynamic equilibrium.
- This means the rate of the forward reaction is equal to the rate of the backwards reaction.



 The dynamic bit means that these reactions do NOT stop, products are formed from reactants and reactants react to form products...it just means the concentrations of the reactants and products does not change.



Reversible reactions

- Reactions where products can react to form the original reactants.
- Reactions go both ways!



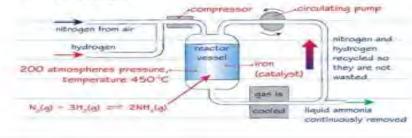
 Note the arrow points in both directions, showing this is a reversible reaction.

Factors effecting the equilibrium position

- Different factors can be used to shift the position of the equilibrium point...either to produce more product or more reactants.
- The factors are temperature, pressure (for reactions involving gasses) and concentration (of the reactants and products).

The Haber process

- · Reaction between hydrogen and nitrogen to form ammonia.
- You need to remember the conditions for the process...
 - Pressure of 200 atmospheres
 - Temp of 450 °C
 - Iron catalyst



Le Chatelier's Principle

- The principle states, any change to either temp, pressure or concentration in a reversible reaction and the equilibrium position will move to counteract that change.
- This means we can adjust these factors to get more product or more reactant, if that's what is needed.
- Details of how each change effects the reaction can be found below, using the Haber process as an example.

TEMPERATURE All reactions are exothermic in one direction and endothermic in the other (see page 134).

- If you decrease the temperature, the equilibrium will move in the exothermic direction to produce more heat.
- If you increase the temperature, the equilibrium will move in the endothermic direction to absorb the extra heat.

For example, N₁ = 3H₁ pc 2NH₁.
The traction is expressing in the Second decision.

Fying decision the temperature, the equilibrium will shall be right by positive and entire product).

PRESSURE Changing this only affects equilibris involving guess.

- If you increase the pressure, the equilibrium will move towards the side that has fower moles of pan to reduce pressure.
- If you decrease the pressure, the equilibrium will move towards the side that has more moles of ses to increase pressure.

CONCENTRATION

- If you increase the concentration of the reactants, the equilibrium will move to the right to use up the resistants (making more products).
- If you increase the concentration of the products, the equilibrium will move to the left to use up the products (making more reactants).
- 3) Decreasing the concentration will have the opposite effect.

For example

N. + 3H, = 2NH,

I you immade the

vectorization of 70, or 71, the

appliferium will delik be the copie

for our up the with timitate

(in participate more growant)

((11)) if Proceedings of the copie

((11)) if Proceedings or the co

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)	-0	-0	-0
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).

Comparatives – to express more or less than

- ... es más...adjective...que is more...adjective...than
- ... es menos ...adjectiveque 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
2. El español	Spanish
3. El francés	French
4. El teatro	Drama
5. El dibujo	Art
6. El deporte	PE
7. La informática	Computer Science
8. La música	Music
9. La tecnología	Technology
10. La geografía	Geography
11. La historía	History
12. La religion	RE
13. La educación personal y social	PSHE
14. Las matemáticas	Maths
15. Las ciencias	Science
16. Las humanidades	Humanities
¿Cuál es tu opinión?	What is your opinion?
17. Es	Itis
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
27. Importante	Important

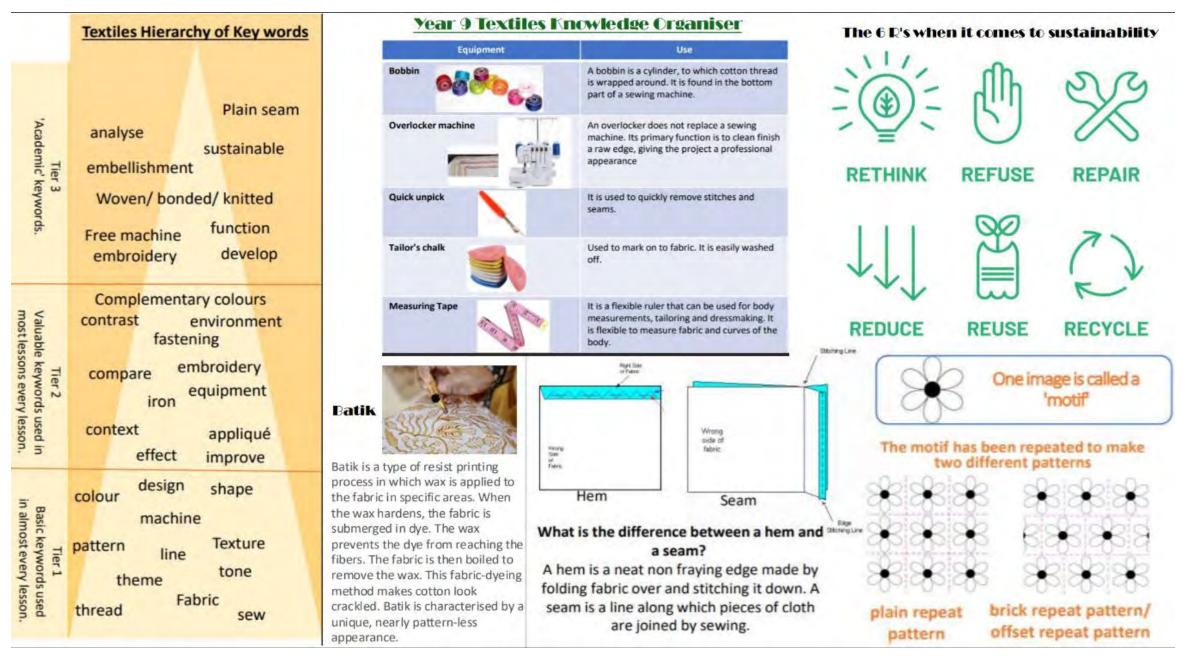
¿Qué llevas?	What do you wear?
28, Llevo	I wear
29. Una chaqueta	Blazer
30. Un jersey	Jumper
31. Una camisa	Shirt
32. Una camiseta	T-shirt
33. Una corbata	Tie
34. Una falda	Skirt
35. Unos calcetines	Socks
36. Unos pantalones	Trousers
37. Unos zapatos	Shoes
38. Unas medias	Tights
¿Cómo es tu uniforme 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

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

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

mer chicle	to thew gum
¿Qué quieres hacer en el futuro?	To do homework What do you want to do in the future?
69. Quiero / Me gustaría	I 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. Peluguero	Hairdresser



Use these in your writing and speaking

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

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 weakness is...

One argument 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...

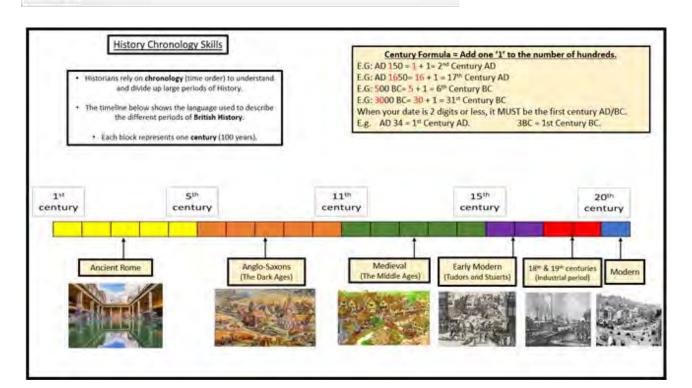
Without a doubt...

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 Plasticity Shortening	Planned Obsolescence Iterative Design Tolerance	analyse sustainable 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 Properties Deciduous	Complementary colours contrast environment fastening				
Carbohydrates Conduction Deficiency Digest Convection	Coniferous Automation Functionality	compare embroidery equipment				
Cross-contamination Micro-organisms	Primary Source Sustainability Continuous Improvement	context appliqué effect improve				
Flavour Claw grip Texture Aroma	Cost Customer Materials Annotation	colour design shape machine				
Nutrients Energy Appearance Bridge hold	Product Safety Design Environment	pattern line Texture theme tone				
Mix Smell	User Prototype	thread 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

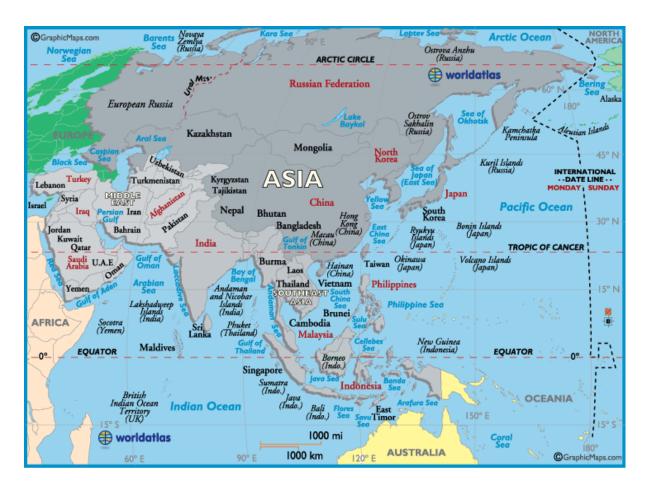
1	2			Key			1 H hypogen 1					3	4	.5	6	7	4 He
7 Li ibum 3	9 Be teryllum 4		ato	ve atomic omic sym	bol							11 B toron 5	12 C anton	14 N ntrogen 7	16 0 0 0 0 0 0 8	19 F Morre 9	20 Ne neon 10
23 Na modern 11	24 Mg magnestum 12											27 Al minimum 13	28 Si #kon 14	31 P phosphoros 15	32 \$ ***** 16	35.5 CI chierem 17	40 Ar ***********************************
39 K pomplum 19	40 Ca caldium 20	45 Sc sundam 21	48 Ti 99mam 22	51 V stredum 23	52 Cr cr cr cr cr 24	55 Mn 25	56 Fe km 26	59 Co	59 Ni nicial 28	63.5 Cu 29	65 Zn are 30	70 Ga onlian 31	73 Ge germanium 32	75 As mente 33	79 Se selstan 34	Br browne 35	84 Kr krypton 36
85 Rb 1055411 37	88 Sr stordam 38	89 Y yman 39	91 Zr zronium 40	93 Nb ricbun 41	96 Mo 100/Marum 42	[98] Tc technetism 43	101 Ru ozorum 44	103 Rh modum 45	106 Pd paladum 46	108 Ag 47	112 Cd connum 48	115 In In Indum 49	119 Sn 50	122 Sb artmany 51	128 Te Infortum 52	127 1 lodne 53	131 Xe 2010 54
133 Cs 55	137 Ba benum 56	139 La* lantianum 57	178 Hf Instraum 72	181 Ta tensium 73	184 W targaten 74	186 Re 1988	190 Os 0s 76	192 Ir maum 77	195 Pt putnum 78	197 Au god 79	201 Hg	204 TI hallum 81	207 Pb	209 Bi 83	[209] Po 84	[210] At 85	[222] Rn ***********************************

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

^{*} The elements with atomic numbers from 58 to 71 are omitted from this part of the periodic table.









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

<u>https://www.bbc.com/bitesize</u> - *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

<u>RS</u>

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