

Monday 2 nd June	Week B
Monday 9 th June	Week A
Monday 16 th June	Week B
Monday 23 rd June	Week A
Monday 30 th June	Week B
Monday 7 th July	Week A
Monday 14 th July	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 6

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

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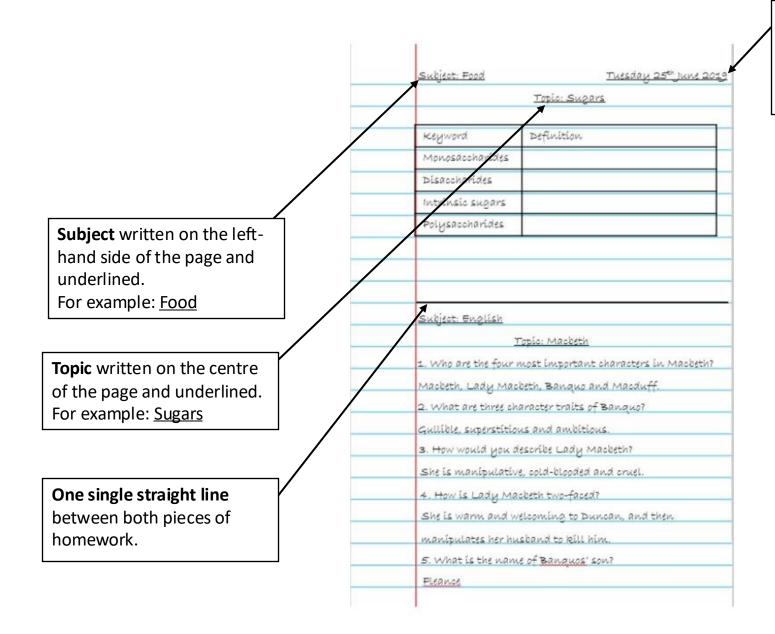
Textiles.....Pg 37

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

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

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

How to present your homework:



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

Home Learning Strategies to help you revise

Brain Dump



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

Mind Map



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

Diagram



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

Vocabulary



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

Retrieval Quiz



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

Compare



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

Year 9 Mixed Media Portraits

Content: In this project you will

Knowledge—of different artists who create portraits

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

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

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



Louie Jover— Is an artist living in Australia. He creates mixed media portraits of celebrities. He works in layers, deconstructing a photograph of celebrities and adds geometric shapes and lines.



Delita Martin_- Is an artist who lives in Texas, USA. Martin's goal is to create images as a visual language to tell the story of women that have often been marginalized, offering a different perspective of the lives of Black women.



Keywords

Portrait—An artistic representation of a person, in which the face and its expression is the focus.

Mixed Media— art composed from a combination of different media or materials.

Analysis

All artist research pages should be annotated

Artwork-

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

Sentence starters

I like/dislike the way the artist has used...because
I think the colour scheme used is effective because...
I think the artist has been inspired by...because

Evaluation of Your Artwork-

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







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

Computing: Term 6: Spreadsheets

Keywords:

Cell: An individual spreadsheet box where you enter data.

Cell reference: Names of individual cells (A5 for example).

Chart: A graphical way of displaying data.

Column: Cells that go down the spreadsheet page.

Model: : Predicts and investigates how real-life devices or processes might behave in different situations.

Data: Values, typically letters or numbers.

Formula: Makes automatic calculations that

update when the data does.

Range: Set of cells next to each other.

Row: Cells that go across the spreadsheet page.

Worksheet: An individual sheet

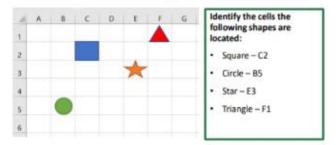
Operator	Explanation	
=	Equal to.	
>	Greater than.	
<	Less than.	
>=	Greater than or equal to.	
<=	Less than or equal to.	
<>	Less than or greater than.	

Formula	Explanation
=A7+B7	Adds data in cell A7 with data in cell B7.
=D4-J1	Subtracts the data in cell J1 from the data in cell D4.
=C5*I9	Multiplies the data in cell C5 with the data in cell I9.
=E6/T7	Divides the data in E6 with the data in T7.
=SUM(F4:F12)	Adds up all the data from cells F4 to F12.
=AVERAGE(H2:R2)	Works out the average of the data between cells H2 and R2.
=MAX(A6:A34)	Shows the maximum value across the range of cells.
=MIN(C4:K4)	Shows the minimum value across the range of cells.

Advantages of using Spreadsheets:

- They can simulate real life events safely.
- Formula will automatically update the result of a calculation when data is amended.
- Data can be presented using charts & graphs.
- You can carry out "what if?" investigations to see how small changes affect other things. For example, a grocer could increase his prices to see the effect on sales.

Cell Referencing



Graphs:

Line Graph

To show a change over time.

Pie Chart

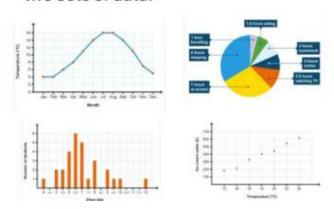
To show the individual parts that make up a whole.

Bar Chart

To compare things that aren't directly related.

Scatter Graph

To look for a pattern or link between two sets of data.



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

Physical Skills

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

Characterisation

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

Vocal Skills

Volume
Diction
Emphasis
Accent
Intonation
Inflection
Emotional tone
Pitch
Pace
Pause

You can include:

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

Teamwork

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

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

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

The final stages of the process

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

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

Then ask for honest feedback and act on it.

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

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

Year 9 D&T - Pewter Project

What is pewter?

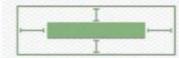
- Pewter is a malleable metal alloy consisting of tin, antimony, copper, bismuth, and sometimes silver. Modern pewter consists of are 94% tin.
- Pewter has a low melting point (around 170-230 °C) making it ideal for melting on a chip forge and brazing hearth and casting

Elements of Design



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





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



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





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

2D Design Basic Tools





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

PATH - This tool creates curved lines through continual clicks.

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

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

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

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

Computer aided design (CAD)

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

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

Isometric Drawing Shows Objects at 30°

- 1) Isometric drawing can be used to show a 30 picture of an object.
- 2) It doesn't show perspective (things don't get smaller in the distance). but it's easy to get dimensions right,
- 3) There are three main rules when drawing in increation

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

sometric det paper

Crating Can Be Used to Draw 3D Shapes

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



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

What is an Alloy?

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

Example

Iron + Carbon = Steel

Copper + zinc = Brass

What other alloys can you think of?

Malleable

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

Computer aided manufacture (CAM)

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

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

Reading Shakespeare's Imagination: A Midsummer Night's Dream

Plot

Four lovers, having an argument in the Athenian woods at midnight, are confused by fairies who are only trying to help. Throw in some magic, a custody battle over a little boy, and an amateur actor who unsuspectingly becomes the fairy queen's love interest... oh and a magic set of ass's ears... and there you have it - A Midsummer Night's Dream, a comedy.

- Hermia runs away with Lysander instead of marrying Demetrius.
- The King and Queen of the fairies fight over a little boy.
- Puck muddles up the lovers and causes havoc with a love potion.
- Bottom gets the ears of an ass and Titania falls in love with him.
- Oberon puts things right and wins the little boy from Titania.
- The lovers get married. Bottom's friends put on a play to celebrate.

Context

- The play is about Pyramus and Thisbe.
- The fairies bless the marriages.



The most influential writer in all of English literature, William Shakespeare was born in 1564 to a successful middleclass glove-maker in Stratford-upon-Avon, England. Shakespeare attended grammar school, but his formal education proceeded no further. In 1582 he married an older woman, Anne Hathaway, and had three children with her. Around 1590 he left his family behind and travelled to London to work as an actor and playwright. Public and critical success quickly followed, and Shakespeare eventually became the most popular playwright in England and part-owner of the Globe Theatre. His career bridged the reigns of Elizabeth I (ruled 1558-1603) and James I (ruled 1603-1625), and he was a favourite of both monarchs. Indeed, James granted Shakespeare's company the greatest possible compliment by bestowing upon its members the title of King's Men. Wealthy and renowned, Shakespeare retired to Stratford and died in 1616 at the age of fifty-two.

Key Characters

Puck – Also known as Robin Goodfellow, Puck is Oberon's jester, a mischievous fairy who delights in playing pranks on mortals.

Lysander - A young man of Athens, in love with Hermia.

Demetrius - A young man of Athens, initially in love with Hermia and ultimately in love with Helena.

Hermia - Egeus's daughter, a young woman of Athens. Hermia is in love with Lysander and is a childhood friend of Helena.

Helena - A young woman of Athens, in love with Demetrius.

Bottom - The overconfident weaver chosen to play Pyramus in the craftsmen's play for Theseus's marriage celebration.

Oberon - The king of the fairies.

Titania - The beautiful queen of the fairies.

Egeus - Hermia's father, who brings a complaint against his daughter to Theseus.

Theseus - The heroic duke of Athens, engaged to Hippolyta. Hippolyta - The legendary queen of the Amazons, engaged to Theseus.

Key Quotations

"Ay me, for aught that I could ever read,
Could ever hear by tale or history, The course of true love never did run smooth ..."

"If we shadows have offended, Think but this, and all is mended: That you have but slumbered here, While these visions did appear; And this weak and idle theme, No more yielding but a dream, Gentles, do not reprehend.

If you pardon, we will mend."

Though she be little she be

fierce'

'I must go seek some dewdrops here, And hang a pearl in every cowslip's ear'

'Cupid is a knavish lad, Thus to make poor females mad.'

"Love looks not with the eyes, but with the mind, And therefore is wing'd Cupid painted blind.

'Lord what fools these mortal be'



Key Themes

Love:

Shakespeare explores the lighter side of love in A Midsummer Night's Dream. Love makes us behave in strange ways — the lovers fight in a most uncivilised way in the woods. It can bring out the best and bravest qualities in a character — Hermia risks her life for love. Lovers often feel invincible against a world that doesn't understand them, just as Hermia and Lysander stand alone against Athens's law. Love can make us ridiculous — Helena asks a boy to treat her like a dog, whilst Titania falls in love with a donkey. Love can be cruel — Helena and Demetrius fall desperately in love with someone who doesn't love them back. Love also has a powerful magical quality: falling in love can be like being under a spell.

Appearance and Reality:

Sometimes things are not quite what they seem. Sometimes we fail to see situations as they really are. People often pretend to be something that they're not, hiding their true selves for one reason or another. Shakespeare was really interested in this idea and explored it in many of his plays. This theme is usually referred to as appearance and reality.

Order and Disorder:

Much of the comedy of A Midsummer Night's Dream comes from the chaos created when the natural order of things is disrupted. But there's a darker side too. There's not one character that isn't relieved when Oberon finally restores the midnight world to a

happier one by o

Unit 2: Shakespeare

Poetry:

Spellbound Emily Bronte

The Poison Tree William Blake

Still I Rise Maya Angelou (consider Helena's voice, link with other characters who are marginalised)

The Magic of the Mind by Clive Webster

Do you carrot All for Me? Anon (humour and word play)

Poetic terms

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 poem

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 mid-line; 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.

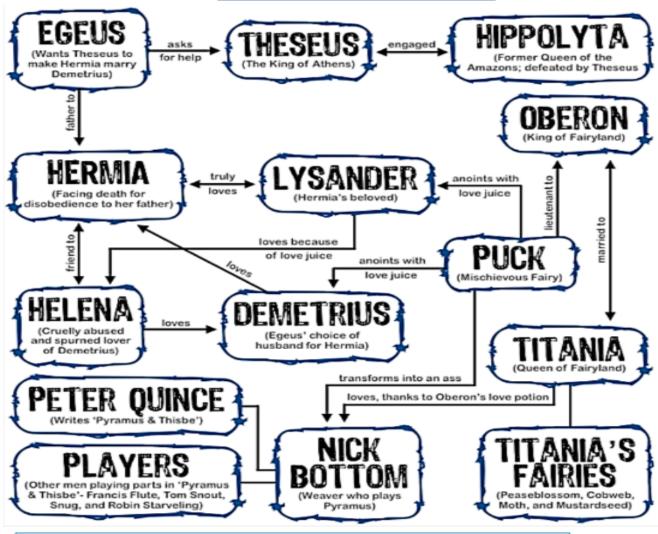
 $\label{eq:condition} \textbf{Onomatopoeia} - a \ \text{word which sounds like the thing it is describing} - i.e.$

bang

Alliteration - the repetition of the same sound

Sibilance - the repetition of the 's' sound

Relationships in the play



Literature terminology - Symbolism, motif, archetype, soliloquy, allusion, lyricism, farce, comedy

What do we need proteins for?

Build enzymes and hormones

Fu

nc

tio

ns

SS

ie

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

What happens if we have too much or too little?

Ex Kidney and liver diseases

Weight gain

De Kwashiorkor fic

Slowing growth rate

Swelling

Protein alternatives

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









Beans, lentils, chickpeas

What do we need carbohydrates for?

Primary source of energy nc

Store energy for later

Build DNA

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

What happens if we have too much or too little?

Tooth decay Ex

Type 2 diabetes ce

Weight gain and obesity Hyperglycaemia

De fic

ie

nc

tio

little?

Ex

tio

Weight loss

Lack of energy, tiredness

Severe weakness

Hypoglycaemia

Proteins can denature when:



They are heated

They are whisked, beaten or

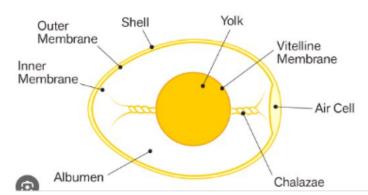




They come into contact with acidic/alkaline ingredients



Proteins unravel becoming firm when heated



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

What do we need fats for?

Fu Source of energy nc

Insulation

Obesity

Dissolve vitamins

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



Cream

Saturated

Olive oil

Unsaturated

Avocado

The food science bit! Thickening sauces with

starches. Gelatinisation happens

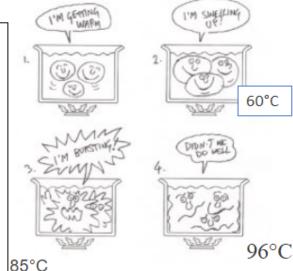
mixture are heated.

change texture.

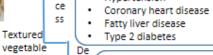
The water enters the starch granules and they swell and

when a starch and liquid

- As more water is taken in. the granules expand, and the mixture becomes viscous and thick.
- This results in a gel which thickens sauces by the process of gelatinisation.



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



cy

Weight loss fici

Hypertension

Vitamin deficiency en

Heart disease Feeling cold

There are two different types of fats



¿Quelle est ta fête	What is your favourite festival	9.12 Fes	tivals	Les phrases/verbes du passé L'année dernière	Phrases/verbs in the Last year
préférée?	festival	Franch Vasah List		Lannee derniere Le mois dernier	Last year Last month
Ma fête préférée est	My favourite festival is			Avant hier	The day before yest
Le Noël	Christmas	¿Qu'est-ce qu'on fait pour	What do we do to celebra		Last week
		célébrer?		Hier	Yesterday
Le Réveillon de Noël	Christmas Eve	Je me lève	l get up	Dans le passé	In the past
La Saint-Sylvestre	New Year's Eve	Je me douche	l shower	Quand j'avais ans	When I was years
La Same Syrvestre	New rear 3 Eve	Je m'habille	I get dressed	L'été dernier	
Le Nouvel An	New Year's Day	Je reçois des cadeaux	I receive presents		Last summer
Le Divali	Divali	J'éteins des bougies	I blow candles out	L'hiver dernier	Last winter
Le Divaii	Divan	Je décore l'arbre de Noël	I decorate the Christmas t	ree II y a (deux ans)	ago (two years)
Pâques	Easter	J'achète des nouveaux	I buy new clothes	Le weekend dernier	Last weekend
La Hanandila	11	vêtements		Je suis allé(e)	l went
Le Hanoukka	Hanukkah	Je vais à l'église	I go to church	J'ai célébré	I celebrated
L'Aïd	Eid	Je vais à la mosquée	I go to the mosque	J'ai mangé	l ate
		Je vais à la place	I go to the square	J'ai bu	I drank
Le premier avril	April Fool's day	Je vais à la maison de	I go to's house	J'ai ouvert	Lopened
L'anniversaire	Birthday	arrive	arrives	C'était	It was
	,	Nous mangeons	We eat		
Le premier mai	May day	Nous jeûnons	We fast	Les phrases/verbes du futur L'année prochaine	Phrases/verbs in the f
Une fête	Party	Nous jouons des jeux de société	We play board games	·	Next year
One rete	laity	Nous célébrons	We celebrate	Le mois prochain	Next month
La fête des Mères	Mother's day	Je m'amuse bien	I have a good time	Après demain	The day after tomorro
1 - 104 - 1 - 1	NAi. fti.	Je regarde des feux d'artifices	I watch the fireworks	Demain	Tomorrow
La fête de la musique	Music festival	Je vais au lit	I go to bed	La semaine prochaine	Next week
Un jour férié	Bank Holiday	Je me couche	I go to sleep	Dans le futur / à l'avenir	In the future
	Marriaga/w	C'est comment?	How is it like?	Quand j'aurais ans	When I will be years
··· ← → age/les noces	Marriage/wedding	passionnant	Exciting	L'été prochain	Next summer
Le 14 juillet	Bastille Day	inoubliable	unforgetable	Je vais aller	I am going to go
La Caint Walantin	Valantina/a dan	amusant	Fun	Je vais célébrer	I am going to celebrat
La Saint-Valentin	Valentine's day	insupportable	Unbearable	J'ai l'intention de manger	I intend to eat
Le Mardi Gras	Shrove Tuesday	Un désastre	A disaster	Je voudrais/j'aimerais boire	I would like to drink

9.12 Festivals and Culture



Listening check-list

Before I listen ...

- 1. read the exercise carefully, paying attention to the instructions and pictures
- 2. think of possible words, phrases and ideas I might hear
- 3. think about how these words and phrases would be pronounced
- 4. think of the different ways certain phrases could be expressed While I listen, pay attention to...
- 5. repetition or paraphrase
- 6. time marker phrases
- 7. the questions and tasks that go with the passage
- 8. all the things I predicted (questions, vocabulary, possible answers)

While I listen, I work out any words I don't know by...

- 9. using the words I understand to get the general meaning of the passage first
- 10. listening to words that come before or after the unknown word
- 11. using my general knowledge to think about what the unknown word might logically mean
- 12. listening to what comes later in the passage for further clues, or to check whether the unknown word does in fact mean what I think it means
- 13. using what I know about sentence structure to work out what kind of word it is (noun, adjective, verb)
- 14. thinking whether the unknown word is like a word I know in English or French/German/Spanish, and then checking whether that meaning would make sense

Reading – Top tips

- Read the introduction to the question carefully. This will help you to give sensible answers. Look for titles.
- Answer every question, especially where you <u>have to</u> write a letter. If in doubt, have a guess.
- Read the whole of the sentence so that you can check that your first reaction is right. If you think the answer is 'P' (positive) for example, read on in the text to make sure that the correct answer is not in fact 'P and N' (positive and negative).
- Do not copy whole chunks of the text because you might include the wrong answer as well as the right answer.
- If you are asked to give one reason or one detail, only give one.

VOCABULARY IS KEY!

Look through the vocab lists and try to refresh your memory of as much vocabulary as possible.

Translation - Top tips

- Read the whole sentence/paragraph first.
- Chunk the sentences e.g. I play / videogames / in my bedroom.
- Highlight what you don't know.
- Be as ACCURATE as you can.
- What are you being tested on, look out for different time markers.
- Make sure you reread your translation, does it make sense?



Les pays francophones	French Speaking Countri
La France	France
Le Cameroun	Cameroon
Le Sénégal	Senegal
La Corse	Corsica
La Guadeloupe	Guadeloupe
La Suisse	Switzerland
La Belgique	Belgium
L'Algérie	Algeria
La Tunisie	Tunisia
La Guinée	Guinea
La Guyane	French Guiana
La Côte d'Ivoire	Ivory Coast
La Polynésie Française	French Polynesia
Le Bénin	Benin
Le Burkina Faso	Burkina Faso
Le Burundi	Burundi
Le Canada	Canada
Le Tchad	Chad
Le Congo	Congo
Le Djibouti	Djibouti
Le Haïti	Haiti
Le Luxembourg	Luxembourg
Le Madagascar	Madagascar
La République du Mali	Mali
Le Monaco	Monaco
Le Niger	Niger
Le Rwanda	Rwanda
Les Seychelles	Seychelles
Le Togo	Togo
Le Vanuatu	Vanuatu
Les Antilles	French speaking Caribbea
STATE OF THE STATE	

Islands

Les directions ies nord nord-est sud-est sud sud-ouest ouest nord-ouest La géographie Je suis francophone Une langue maternelle L'Hexagone Les DOM TOM L'outre-mer Le métropole Un territoire Un département Une région L'histoire La révolution française La colonisation La civilisation Le conflit La culture Le cinquième république L'indépendance La liberté La Renaissance Un siècle Contemporain Moderne

Laïque

Mother tongue France (slang) French overseas territories Overseas Mainland France Area Department Region History The French Revolution Colonisation Civilisation Conflict Culture The 5th Republic Independence Freedom The Rennaissance A century Contemporary Modern Secular

Directions

southeast

southwest

northwest

Geography

I speak French

north northeast

east

south

west

La langue de tous les jours Bonjour! Bienvenue. Pardon, excusez-moi. Parlez-vous anglais? Je ne parle pas français. À tout à l'heure! Merci/Merci beaucoup. Au revoir! De rien. Je ne comprends pas. Où est un bon restaurant/un bon café? Où est la plage/le centre-ville? Je cherche le métro/le gare/l'aéroport. Je cherche l'hôtel/l'hôpital/la banque. Pourriez-vous prendre ma photo/notre photo? Il n'y a pas de quoi Vas-y, Allez-y Bonne soirée! À demain! Je suis desolé(e) Tu t'appelles comment? Je suis perdu Attention! Fais/faites attention! Bien sûr C'est n'importe quoi! Laisse tomber... Ca te dit?/Ca vous dit? Tiens-moi au courant! Bref T'sais? Ça te changera les idées...

Everyday language Good morning, hello Welcome Pardon, excuse me. Do you speak English? I do not speak French. See you later! Thank you/Thank you very much. Goodbye! You're welcome. I do not understand. Where is a good restaurant/a good café? Where is the beach/city center? I am searching for the metro/train station/airport I am searching for the hotel/hospital/bank. Can you take my/our photo? It's nothing/don't mention it Go on, go ahead Good evening! See you tomorrow! I'm sorry What's your name? I'm lost Careful! Be Careful!! Of course That's nonsense! Forget it... You up for it? Keep me up to date! all in all Ya know? It'll take your mind off things...

Year 9 Geography Will we ever stop human exploitation?

Human rights	Are rights we have simply because we exist as human beings - they are not granted by any state (country). These universal rights are inherent to us all, regardless of nationality, sex, national or ethnic origin, colour, religion, language, or any other status.
Universal Declaration of Human Rights (UDHR)	Adopted by the UN General Assembly in 1948, was the first legal document to set out the fundamental human rights to be universally protected.
Migrant	Someone who moves, this can be within a country or between countries. Either permanently or temporary but not as a tourist.
Immigrant	Someone that moves into a new place
Emigrant	Someone that leaves a place
Push factor	A reason that makes someone to leave (negative)
Pull factor	A reason that attracts someone to a new location
Forced migration	Movement of people away from their homes due to political conflict, natural disaster
Forced labour	Work that is involuntarily and under the menace of any penalty.
Globalisation	The process by which the world is becoming increasingly interconnected as a result of massively increased trade and cultural exchange



Qatar is located in Western Asia on the Persian Gulf. The capital city is Doha.

Syria has faced a

number of years of war and political instability. This has led to mass migration of people from Syria. People who are forced to leave their country as a result of war are refugees.



China is the biggest manufacturer of iPhones globally, with 349 suppliers. Apple outsource to companies such as Foxconn.

Conditions that some face in factories: long 12 hour shifts, cramped living conditions, relentless and repetitive work.

Qatar is hosting the 2022 World Cup. It is building 8 new stadiums and an entire new city.

Migrants make up 94% percent of all workers in Qatar and 86% of the country's total population— the world's highest ratio of migrants to citizens. The highest proportion of migrant workers come from India and Bangladesh.

Syria is located in Western Asia. The capital city is Damascus.







Celebration / Festivals

der Aschermittwoch

der Karfreitag

der Karneval/der Fasching

der Maifeiertag

der Mutterstag

Ostern

Pfingsten

Tag der Deutschen Einheit

der Valentinstag

Geburtstag/Halloween

der Neujahrstag

Silvester

der Aprilscherz

Celebrations/Festivals

Ash Wednesday **Good Friday**

Carnival/Carnival

May Day

Mother's Day

Easter

Whitsun

Day of German Unity

Valentine's Day

Birthday/Halloween

New Year's Day

New Year's Eve

April Fool's Day

Year 9 German – Festivals and Traditions

Key vocab

die Einladung

die Feier/das Fest

die Festlichkeit

der Feiertag

die Tradition/kirchlich

die Moschee

die Fastenzeit

die Umzüge/die Wagen

der Osterhase/ das Osterei

das Feuerwerk

die Kerze/das Licht

der Gast/der Gastgeber/die Menge

die Geschenke

die Zuckertüte

die Gastfreundschaft die Party/Das Straßenfest **Kev vocab**

Invitation

Celebration/Festival or celebration

Celebration

Public holiday Tradition/religious

Mosque

Period of fasting/Lent Processions/floats

Easter bunny/Easter egg

Fireworks

Candle/light Guest/host/crowd

Presents

Cone filled with sweets

Hospitality

Party /street party

Key Vocab München

Köln Berliner Pfannkuchen das Oktoberfest

Scherze/Streiche

die Hexe

das Kostüm das Volksfest

die Besucher der Grillabend

Key phrases Munich

Cologne

Sweet doughnut October Beer festival

Jokes/tricks

Witch Costume

Public festival Visitors

barbecue

Key verbs in infinitive

bekommen danken

einladen

feiern

sich verkleiden

besuchen

teilnehmen

stattfinden dauern

freuen (sich auf)

freuen (sich über)

schmücken

verstecken /schicken

Key verbs in infinitive

to get/to receive to thank

to invite

to celebrate

to dress up to visit

to take part to take place

to last

to look forward to

to be pleased about sthg

to decorate

to hide/to send

Weihnachten

der Adventzkranz der Weihnachtsbaum

die Weihnachtslieder

Heiliger Abend Erste Weihnachtstag

Zweite Weihnachtstag

der Lebkuchen austauschen

der Sankt Nikolas Tag Gänsebraten/ der Rotkohl Christmas

Advent wreath Christmas tree

Christmas carols Christmas Eve

Christmas Day **Boxing Day** Gingerbread

To exchange

St Nicholas' Day (6th Dec) Roast goose/red cabbage

Key Question words

Wann? Warum? Wer Wie? Was?

Was für? Wo? Wohin?

Woher? Wozu? Wieso?

Wie viel? Wie viele? **Key Question words**

When? Why? Who? How?

What? What sort of? Where?

Where to? Where from? What for? Why?

Why? How come? How much?

How many?



Ich kann sprechen

Guten Tag Guten Morgen **Guten Abend Gute Nacht**

Auf Wiedersehen Auf Wiederhören

Hallo! Tschüss Grüß Gott

Wie geht's? Bis später

Bis morgen

Bitte Danke Natürlich

Was ist los mit dir?

Wie schade Es tut mir leid Ich weiß nicht Ich verstehe nicht

Vielleicht Wie bitte? Viel Glück

Everyday language

Good day **Good Morning** Good evening Good night Goodbye

Goodbye (on phone)

Hi! Bye Hello

How are you? See you later See you tomorrow Please/you're welcome

thanks Of course

What's wrong with you?

What a pity I am sorry I don't know I don't understand

perhaps

I beg your pardon

Good Luck

Year 9 Geography, History and culture
To exit full screen, press Esc

Erdkunde

auf dem Land an der Küste der Fluss die Gegend am Meer

der Einwohner

der Baum/die Blume

der Hafen in den Bergen der Hügel die Landschaft

die Insel die Mauer der Platz

die Umgebung der Wald

der Rhein Die Alpen

Die Bundesländer

Bayern

der Schwarzwald

die Mosel die Donau Wien die Schweiz Österreich Genf

Geography

In the countryside On the coast

River area By the sea Inhabitant Tree/flower Port/harbour

Hill

Landscape Island Wall

Place/square Surrounding area Wood/forest

In the mountains

Rhine The Alps

The Federal States

Bavaria

The Black Forest

Moselle Danube Vienna Switzerland Austria

Geneva

Wo ist

im Norden im Osten im Westen im Süden die Hauptstadt

am Stadtrund im Stadtzentrum Where is

In the north In the east In the west In the south Capital city

On the outskirts of town In the town centre

Erdkunde

die Ostsee

das Mittelmeer

Asien

die Nordsee

der Ärmelkanal

Rom Venedig

> Basel der Bodensee

die S-Bahn die U-Bahn

die Straßenbahn die Tankstelle

tanken

der Zebrastreifen

das Benzin der Verkehr Geography

Baltic Sea

Mediterranean

Asia

North Sea

English Channel

Rome Venice Basle

Lake Constance Suburban railway

Underground

Tram

Petrol station

To fill up

Zebra crossing

Petrol traffic

Context

1960's and 70's Britain is often regarded as a period of revolution and change.

During this topic we are going to assess how much change occurs during this time period for LGBTQ+, women and Black people.

Key Events

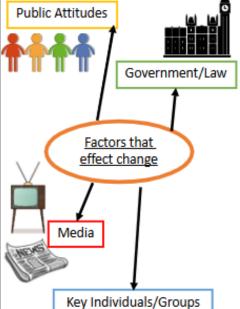
1	1961 – The Contraceptive pill available for married women for the first time on the NHS.	
2	30 th April – 17 th September 1963 – Bristol Bus Boycott took place to challenge discrimination on Bristol's buses.	
3	1965 – Race Relations Act passed, first law to ban racial discrimination in public places and made it a criminal offence.	4
4	1967 – Sexual Offences Act was passed which decriminalised private homosexual acts between men aged over 21.	
5	1967 – Family Planning Act passed, contraception available to all through the NHS.	
6	1968 – The first St Pauls Carnival took place in Bristol.]
7	7 th June 1968 – 187 women sewing machinists at the Ford Motor Company plant in Dagenham , Essex, went on strike.	
8	9 August 1970 – Black Power activists march against police harassment of the Black community in Notting Hill, London.	-
9	1 July 1972 - First Pride march took place in the UK, approximately 2000 protesters marched in London.	



History – Year 9 Knowledge Organiser Term 5



How much did life change for LGBTQ+, women and Black people during the 1960's and 70's?



Key Terms

Any action of campaigning to bring about change. Usually social or political change.			
The rights of citizens to political and social freedom and equality.			
nalisation To no longer to treat something as illegal or as a criminal offence.			
The state of being equal, especially in status, rights, or opportunities.			
tion To make something that was previously illegal allowed by law.			
On To set someone or something free. For example from oppression.			
On To overthrow a government or social order, in favour of a new system.			
Wave Feminists who sought to change social and sexual discrimination.			
from oppression. To overthrow a government or social or favour of a new system. Wave Feminists who sought to change social a			

Key Skills

continuity. each group during the	ontinued, stayed the same, for e 60's and 70's? Why? How inge? To what extent did they
-----------------------------------	--



1968 - British Black Panthers BBP

1970 - Gay Liberation Front GLF

c.1960's – Women's Liberation Movement WLM



1978 - Organisation of Women of Asian and African Descent OWAAD



Darcus Howe Olive Morris
BBP BBP



Stella Dadzie OWAAD



Roy Hackett Bristol Bus Boycott



Paul Stephenson Bristol Bus Boycott



Aubrey Walter

GLF



RATIO AND DIRECT PROPORTION

Key Concepts

unitary method. single item we can use the To calculate the value for a

value in monetary terms we When working with best

In recipe terms we use: $Price\ per\ unit =$ quantity price

Weight per unit weight quantity

> If 20 apples weigh 600g. How much would 28 apples weigh?

 $600 \div 20 = 30g$ → weight of 1 apple

 $30 \times 28 = 840g$

Which box is the better value? Box B has 20 fish fingers costing £ 3.40. Box A has 8 fish fingers costing £1.40.

$$A = \frac{£1.40}{8} \qquad B = \frac{£3.40}{20}$$
$$= £0.175 \qquad = £0.17$$

finger costs less. Therefore Box B is better value as each fish

Examples

ingredients needed to make The recipe shows the needed to make 25 flapjacks? How much of each will be 10 Flapjacks.

Ingredients for 10 Flapjacks Method 1: Unitary

36 g light brown sugar 30 ml golden syrup 80 g rolled oats $6 \times 25 = 150g$ $60 \div 10 = 6$

60 g butter

 $8 \times 25 = 200g$ $80 \div 10 = 8$

 $30 \div 10 = 3$

 $3 \times 25 = 75g$ $36 \div 10 = 3.6$

 $3.6 \times 25 = 90g$

 $40 \times 5 = 200g$ $80 \div 2 = 40$ Method 2: 5 flapjacks

 $30 \div 2 = 15$

 $15 \times 5 = 75g$

 $30 \times 5 = 150g$ $60 \div 2 = 30$ $36 \div 2 = 18$ $18 \times 5 = 90g$

Packet A has 10 toilet rolls costing £3.50.Packet B has 12 toilet rolls costing £3.60.

3) If 15 oranges weigh 300g. What will 25 oranges weigh? Which is better value for money?

180 g flour 40 g ginger 110 g butter 30 g sugar

men? gingerbread to make 24

Ingredients t 16 gingerba

How much will we need

ANSWERS 1) 270g flour, 60g ginger, 165g butter, 45g sugar 2) Packet B 30p per roll 3) 500g

Key Words

Unitary, Best Value, Proportion

Quantity

https://corbettmaths.com/contents/ https://vle.mathswatch.co.uk/vle/

https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Year 9 Term 6 Maths

DIRECT

AND INVERSE

PROPORTION

Variables are directly Key Concepts

between the quantities. the ratio is constant proportional when

decreasing. proportion to the other quantity increases in proportional when one Variables are **inversely**

Direct proportion:

Value of B	Value of A	
20	32	
30	Р	
35	56	
R	20	
45	72	

Ratio constant: $20 \div 32 = \frac{5}{8}$

Value of B Value of A

70 R

10 14

20 Р

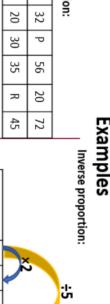
14 10

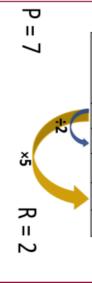
28 5

From A to B we will multiply by $\frac{5}{8}$. From B to A we will divide by $\frac{5}{8}$.

$$P = 30 \div \frac{5}{8} = 48$$

$$R = 20 \times \frac{5}{8} = 12.5$$





Key Words

Direct, Inverse, Proportion

Divide, Multiply, Constant

Va	Va
Value of B	Value of A
9	5
28.8	Р
Ω	22

1) Direct proportion Complete each table:

Inverse proportion

ANSWERS 1) P = 16, Q = 39.6 2) P = 12, Q = 2

Useful Links

https://vle.mathswatch.co.uk/vle/ https://corbettmaths.com/contents/

https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Year 9 Term 6 Maths

SIMILARITY • LENGTHS

Examples

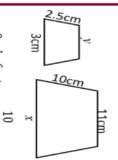
Key Concepts

of one another. Similar shapes are an enlargement

When finding a missing length on the larger shape we **multiply** by the A scale factor is used, whereby all lengths are multiplied by the same

When finding a missing length on the smaller shape we divide by the

scale factor.



y cm

$$Scale factor = \frac{10}{2.5}$$
$$= 4$$

$$x = 3 \times 4$$

= 12cm
 $y = 11 \div 4$
= 2.75cm

9 cm
$$\frac{6 \text{ cm}}{6 \text{ cm}}$$
 E Split the diagram $\frac{1}{2}$

6 + x cm

7cm

0

Scale factor =
$$\frac{12}{9}$$

= $\frac{4}{3}$

2.75cm

$$x + 6 = 6 \times \frac{4}{3}$$
$$x + 6 = 8$$
$$x = 8 - 6$$

$$6 = 6 \times \frac{4}{3} \qquad y = 7 + \frac{4}{3}$$

$$6 = 8 \qquad x = 8 - 6 \qquad = 5.25 cm$$

$$x = 2cm$$

4100

Key Words

Similar, Scale factor, Enlarge, Length

https://corbettmaths.com/contents/

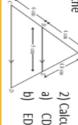
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https://www.bbc.co.uk/bitesize/subjects/zqhs34j



ВС

length of: Calculate the 옸



2) Calculate the length of: \mathbb{C}

ANSWERS 1a) 39cm b) 30cm 2a) 12.5cm b) 7.2cm

PLANS AND **ELEVATIONS**

Key Concepts

Draw this 3D shape from

Examples

points: drawn from three view can be mathematically A 3 dimensional shape

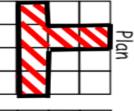
Front view Side view

Plan view – from above

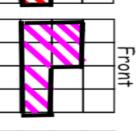
representations dimensional They are drawn as 2

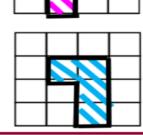
> view and the plan view the side view, the front











Side

Key Words

Elevation, Plan, Side, Front

Useful Links

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

https://corbettmaths.com/contents/

https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Plan Front Side

shape that has Sketch the 3D these three views.

ANSWERS

REFLECTION, ROTATION AND TRANSLATION TRANSFORMATION-

Key Concepts

A **reflection** creates a mirror image of a shape on a coordinate graph. The mirror line is given by an equation eg. y = 2, x = 2, y = x. The shape does not change in size.

a coordinate grid from a given point. The shape does not change size but does A rotation turns a shape on

coordinate grid. Vectors are used to instruct A translation moves a shape on a

Positive-Up

Reflect shape A in the line x = 1. Label it B. Reflect shape A in the line y = x. Label it B Examples Rotate shape B from the point (-1, -2)

Label it B

Translate shape A by $\binom{-3}{-2}$

Key Words

Rotate, Clockwise, Anticlockwise, Centre, Degrees, Reflect, Mirror Image, Translate, Vector

https://corbettmaths.com/contents/ https://vle .uk/vle/

https://www.bbc.co.uk/bitesize/subjects/zqhs34j

Describe the single transformation you see on each coordinate arid from A to B:

1



ANSWERS: a) reflection, y=1 b) reflection y=x c) rotation, centre $(0,0),90^\circ$ anticlockwise d) translation $\binom{5}{4}$

RANSFORMATION **ENLARGEMENT**

Key Concepts

a scale factor from a given point An enlargement changes the size of an image using

A positive scale factor will increase the size of an

A fractional scale factor will reduce the size of an

the image inverted. opposite side of the centre of enlargement, with A negative scale factor will place the image on the



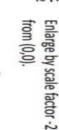
Enlarge shape A by scale factor 2 from point P.

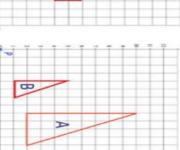
from point P.

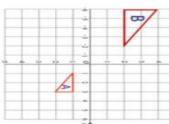
Enlarge by scale factor $\frac{1}{2}$ from (0,0).











Key Words

Enlargement, Scale Factor, Centre, Positive, Negative

Useful Links

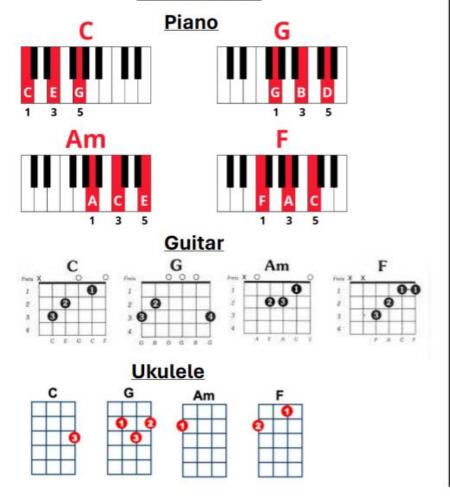
https://www.bbc.co.uk/bitesize/subjects/zqhs34j https://corbettmaths.com/contents/ https://vle.mathswatch.co.uk/vle/

ANSWERS. a) enlarge, centre (-4,2) scale factor 2 b) enlarge, centre (1,-2) scale factor = c) enlarge, centre (0,1) scale factor -3



Music KO – Instrumental Skills

Chords



Drum Notation | Notation | State | St

Keywords

- Chords Multiple notes played at the same time
- Inversion Changing the order of notes in a chord
- Structure The order of sections in a piece of music
- Melody A string of notes one at a time, the melody is sung in a song
- Pulse The constant, steady beat in music that keeps different parts in time
- Riff a repeating musical pattern
- Frets The spaces between the metal bars on the neck of a guitar, ukulele or bass (Start counting from furthest away from the instrument body)



PE Knowledge Organiser

COMPONENTS OF PHYSICAL FITNESS













Aerobic endurance: the ability of the cardio-respiratory system to efficiently supply nutrients and oxygen to working muscles during sustained physical activity.

Muscular endurance: the ability of the muscular system to work efficiently, where a muscle can continue contracting over a period of time against a light to moderate fixed resistance load.

Flexibility: having an adequate range of motion in all joints of the body; the ability to move a joint fluidly through its complete range of movement.

Speed: distance divided by the time taken. (Accelerative speed, pure speed, speed endurance).

Muscular strength: the maximum force (in kg or N) that can be generated by a muscle or muscle group.

Body composition: the relative ratio of fat mass to fat-free mass (vital organs, muscle, bone) in the body.

COMPONENTS OF SKILL-RELATED FITNESS











Agility: the ability of a sports performer to quickly and precisely move or change direction without losing balance or time.

Balance: ability to maintain a centre of mass over a base support. (Static, dynamic).

Coordination: the smooth flow of movement needed to perform a motor task efficiently and accurately.

Power: the product of strength and speed.

Reaction time: the time taken for a sports performer to respond to a stimulus and the initiation of their response.

Changemakers: How does belief inspire change? Knowledge Organiser

NEED TO KNOW WORDS The use of action to bring about Activism change Political and social equality and **Civil Rights** freedom Civil refusal to comply with certain laws Disobedience A publicly elected government Democracy To discriminate against people of a Racism certain race A state of being equal Equality Fair distribution of wealth and Social Justice rights in a society Prejudged opinions of a person or Prejudice group.

Unfair treatment of a group

Discrimination

What is activism?

The word "activism" is only about 100 years old, at least in its current use, and derives from the verb to act. An activist is someone who is active in campaigning for change, normally on political or social issues. Activism is what activists do, that is, the methods they use in order to bring about change. Human rights activism is thus about reacting to injustice, to abusive treatment, to violence or discrimination, and trying to correct it.

Christian views on prejudice and discrimination

Christians believe that all humans are made in the image of God. Therefore any action that devalues a person is an insult to God who created and loves that person:

'Love your neighbour as yourself.' - Matthew 22:39

Islamic views on prejudice and discrimination

Islam teaches that God created everyone as equal but different.

As all are created by God, discrimination against any human is unjustified. The ummah crosses all gender, race and wealth boundaries:

"All human beings are equal like the teeth of a comb." - **Hadith**

Social Justice – Malcolm X

Malcolm X was an important leader who fought against racism and worked to empower Black people in the United States. He believed that Black people should have control over their own lives and communities, and he criticized the way that mainstream civil rights leaders were approaching the issue. He contributed to social justice by:

- Promoting Black independence and challenging the idea of white superiority.
- •Advocating for Black economic and political power through initiatives such as Black nationalism and separatism.
- •Highlighting the impact of systemic racism and institutional discrimination on the Black community.

Examples of Activism				
Demonstrations and protests	During a demonstration or a protest, people united by a common belief meet together. They might march along a specific route, sit in at a specific place to draw attention to the cause, or hold a vigil to honour someone's life			
Boycotts	to refuse to buy a product or take part in an activity as a way of expressing strong disapproval			
Strikes	When workers deal with unfair or dangerous work conditions, low wages, or other issues, they might refuse to work when negotiations are refused or they fail.			
Social media campaigns	Also known as "hashtag activism," it brings activism to social media networks like Instagram and Twitter. Users raise awareness of issues, organizations, and actions through posts, graphics, videos, and more.			

Changemakers: How does belief inspire change? Knowledge Organiser

NEED TO KNOW WORDS

Conviction

Marginalised

March on Washington

LGBTQ+ rights

A firmly held belief or opinion

individuals or groups who are excluded from mainstream society

the historic civil rights march on Washington D.C. on August 28, 1963, where Martin Luther King Jr. delivered his famous "I Have a Dream" speech.

equal rights and protections of LGBTQIA+ individuals

Racism– Martin Luther King Jr

Martin Luther King Jr. was a famous civil rights leader who fought for racial equality and social justice in the United States during the mid-20th century.

Influence of Beliefs:

Christian beliefs strongly influenced his activism and his vision for social justice. He saw the struggle for civil rights as a moral issue, and he believed that all people were created equal in the eyes of God. He emphasised the importance of love and nonviolence in the struggle for justice, drawing on Jesus' teachings in the New Testament.

Contributions to change

- Advocating for nonviolent protests to challenge racial discrimination and segregation.
- Leading the Montgomery Bus Boycott and the March on Washington, which brought national attention to the Civil Rights movement.
- Promoting racial equality and the end of segregation through the Civil Rights Act of 1964 and the Voting Rights Act of 1965.

Education - Malala Yousafzai

Malala Yousafzai is a Pakistani education activist who has become a prominent voice for girls' education and women's rights.

Influence of Beliefs:

Malala Yousafzai is a Muslim, and her faith has played a significant role in inspiring her activism for girls' education and women's rights. She drew on the example of Prophet Muhammad, who taught that seeking knowledge was a duty for both men and women, to inspire her own advocacy for girls' education.

Contributions to change

- Advocating for girls' education in Pakistan.
- Co-founding the Malala
 Fund to promote girls'
 education around the world
- Speaking out on a variety of global issues, including refugees, climate change, and social justice.

LGBTQI+ - Marsha P Johnson

Marsha P. Johnson was a Black transgender woman and LGBTQ+ rights activist who fought for justice and equality for marginalized communities.

Contributions to change

- Being a prominent figure in the Stonewall uprising of 1969, which is widely considered a turning point in the fight for LGBTQ+ rights
- Co-founding the Street Transvestite
 Action Revolutionaries (STAR) which
 provided housing and support to
 homeless transgender youth.
- Challenging traditional gender norms.
- Promoting the idea that all people should be free to express their true selves.

Impact on religion:

Marsha P. Johnson's legacy has inspired many religious communities to re-examine their traditional teachings on gender and sexuality. Some religious organizations have even begun to recognize and celebrate the lives of LGBTQ+ figures like Marsha P. Johnson as part of their own religious traditions, highlighting the intersections between faith and social justice.

Changemakers: How does belief inspire change? Knowledge Organiser

NEED TO KNOW WORDS

Speciesism

The belief that one species, typically humans, is superior to and has the right to dominate over other species

Climate change

Refers to the long-term changes in the Earth's climate primarily due to human activities such as burning fossil fuels and deforestation.

Ummah

the global community of Muslims

Christian views on Activism

Many Christians believe that they are called to work for justice and to serve others, based on the teachings of Jesus Christ. They see activism as a way to live out their faith and to make a positive impact in the world. This can take many different forms, including political advocacy, social justice work, and community service.

At the same time, many Christians also believe in the importance of prayer, worship, and spiritual reflection as a way to sustain their activism and to remain connected to God's guidance and wisdom. They see activism as part of a larger spiritual journey, and they believe that their faith can provide strength and inspiration for their work.

Speciesism – Peter Singer

Peter Singer is a philosopher and ethicist who is known for his work in animal rights

Contributions to change

 Criticizing the use of speciesism, or the belief that humans are superior to other animals, as a justification for the exploitation and mistreatment of non-human animals.

Significance

Peter Singer's secular humanist worldview has led him to be a strong advocate for the rights and well-being of all beings, and has inspired many people to re-examine their own ethical beliefs and values.

Climate – Extinction Rebellion

a global environmental movement that aims to raise awareness about the climate crisis and the urgent need for action to prevent further damage to the planet.

Aims:

To pressure governments and other institutions to take immediate action to address the climate crisis, including reducing carbon emissions, transitioning to renewable energy, and protecting biodiversity.

XR also advocates for systemic change that would move away from a fossil fuel-based economy and toward a sustainable and just society.

Activism:

The methods used by XR include nonviolent civil disobedience, such as blocking roads and disrupting public spaces, as well as other forms of protest and direct action. The movement believes that such tactics are necessary to draw attention to the urgency of the climate crisis and to pressure those in power to take action.

Islamic views on Activism

In Islam, the concept of social justice is central, and Muslims believe that they have a responsibility to work for the betterment of society and to alleviate the suffering of those in need. This can take many forms, including political activism, social welfare work, and community service.

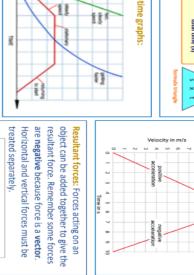
Muslims also believe in the importance of prayer and worship as a way to connect with God and to seek guidance and inspiration for their work. They see activism as a way to live out the principles of their faith and to embody the teachings of the Prophet Muhammad.

EDEXCEL 9-1 Combined Science | Year 10 Physics Topic 1 – Motion, Forces and Energy | Required Knowledge

Acceleration Force
Velocity Speed Displacement Distance Weight Mass Acceleration
ement
ation
Acceleration Force
Force

Average speed is calculated using this eed (m/s) = $\frac{\text{total distance (m)}}{\text{total time (s)}}$

Distance-time graphs:

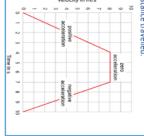


DISTANCE

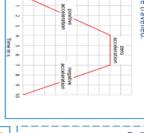
cceleration: units: m/s^2 . Speeding up or swing down. Two equations to learn: $v-u=a\times t$ a x t (v-u) a = acceleration v = final velocity u = initial velocity t = time taken

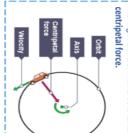
here s = distance. $v^2 - u^2 = 2 \times a \times s$

ot deceleration. owing down is negative acceleration



Velocity-time graph: Area under the line distance travelled





Newton's Second Law:

Newton's Third Law: Two objects interacting with one another experience equal forces in opposite directi

▼60N

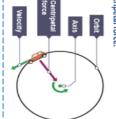


Newton's First Law: An moving object will continue to move at the same velocity (speed and direction) until acted on by a resultant force.

A stationary object will remain at rest until acted on by a resultant force.

a circle is constantly changing direction. H - Circular motion: An object moving in

force is required to keep the object moving in a circle. This force is called the Change in direction means change in velocity, and therefore the object is accelerating (positive or negative) even if its speed does not change. This means a



Force = mass x acceleration $F = m \times a$ $\mathbf{m} \times \mathbf{a}$ Ŧ



10 10 10

→ 30N

20N to the right

90N to

the right → 30N

CPG F & H tier p145-164

Same regardless of location. How much matter there is. Scalar (size only). kilograms (kg) Measured in Mass on location (e.g., different planets). The force of gravity acting on the mass. Vector (size and Ē direction) Measured in Newtons Changes depending

On Earth, g = 10 N/kg. Weight = mass x gravitational field strength $W = m \times g$ $= m \times g$

 $m \times v$

H - Mom

entum: A measure of how hard it

is to stop an object moving. Vector. Units:

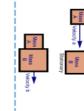
momentum of an object,

ultant force is needed:

Change in mo

mυ -mu

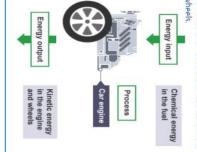
entum is cor two objects: The total ved befor e and after



Energy stores: Energy is stored in different

- Kinetic energy: Stored in moving Chemical energy: Stored in chem form, e.g.: food, fuel (e.g. petrol),
- objects, e.g. car, train, sprinter.
 Thermal energy: Stored as heat, e.g.:
- Elastic potential energy: Stored in ed materials, e.g.: springs, rubbo
- Gravitational potential energy: Stored in objects raised a height above ground, e.g. a ball held above the ground.
 Nuclear energy: Stored inside atoms.

For example, a car transfers energy from the chemical store (fuel) to the thermal store (in the engine) and then to the kinetic store (in the wheels). The total amount of energy stays constant. This is the **law of conservation of energy**. Some of the energy is transferred to the thermal store as friction and not to the kinetic store in the Conservation of energy: Energy cannot be created or destroyed. It can only be transferred from one store to another.



transferred. The arrow splits into different directions for transfers to

ent energy stores

arrow represents the amount of energy

a Sankey diagram, the width of the

Energy transfers between energy stores can be represented by Sankey diagrams

Energy: Energy is a body's capability to have an effect on its surroundings. For example: A hot cup of tea will heat the air around it and the table top it sits on. Units: Joules (J).

pping distance = thinking distance +

- braking distance.
 Thinking distance:
 The distance travelled in the time between the driver seeing the situation and Affected by: tiredr
- Affected by: tiredness; drugs; alcohol; illness; distractions (e.g. using a mobile

The distance trans

- are applied.
 Slows the car down by friction.
 Affected by: Road conditions (e The distance travelled while the brakes
- gravel, wet); tyre conditions; weight of the vehicle. iditions (e.g. loose

Crash hazards: Rapid acceleration (positive or negative) — like in a car crash — is dangerous to the human body. Cars have crumple zones where the engine compartment crumples in a crash, increasing the time over which the impact takes place. This reduces the size of the acceleration felt by the passengers

Transferring heat: Heat is transferred in various ways: Conduction Energy is transferred by direct contact Energy is transferred Energy is transferred by the mass motion of by electromagnetic molecules radiation Convection Radiation

Keeping warm: It is difficult to keep a

etic energy = ½ x mass x (velocity)² $KE = \frac{1}{2} \times m \times v^{2}$

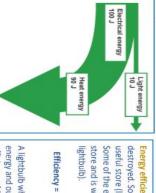
Gravitational potential energy = mass field strength x height.
$$\label{eq:GPE} \mathsf{GPE} = m \times g \times h$$

ntial energy = mass x gravitational

nuclear waste, which remains dangerous for thousands of dioxide and other gases, which contribute to climate change. Nuclear fuel (uranium) is also non-renewable contributes less to climate change. Instead it leaves Non-renewable resources include coal, oil and gas, known as fossil fuels. When burnt they release carbon able but

house warm because heat energy tends to spread. Insulation stop heat energy being conducted from inside to stops heat spreadi outside because the air gaps Cavity wall insulation reduces heat loss

Renewable resources include solar cells, hydroelectricity, wind turbines and tidal power. Renewable resources will not run out. They do not generate carbon emissions. Renewable resources are being increasingly used as they become cheaper and as non-renewable resources begin to run out. Bio-fuels are made from mal waste or plants. They are burned to generate energy.



Energy efficiency: Energy cannot be created or destroyed. Some energy is transferred to the useful store (light in the case of the lightbulb). Some of the energy is transferred to a different store and is wasted (heat in the case of the lightbulb).

Useful energy transferred by Useful energy transferred by the device

Total energy transferred by the device

A lightbulb which consumes 100 J of electrical energy and outputs 10 J of light energy has an efficiency of 0.10.

wasted as heat.

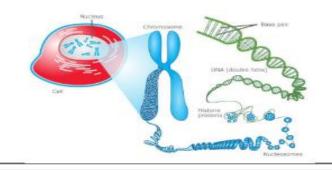
The Sankey diagram opposite shows energy transfers in a filament light bulb. It shows that most of the energy is

EDEXCEL 9-1 Combined Science | Biology Topic 3 - Genetics | Required Knowledge

CPG F & H tier: pages 27-28.

DNA (Pg 27)

- DNA is the genetic material contained in the nucleus of a cell
- The entirety of the human DNA is called the genome.
- DNA is contained within the chromosomes inside the nucleus.
- It has a double helix shape.



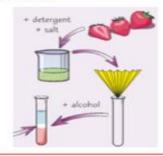
Base pairs (Pg 27)

- Four base pairs:
 - A (adenine)
 - T (thymine)
 - C (cytosine)
 - G (guanine)
- Base pairs are bonded together with hydrogen bonds
- A always bonds with T, C always bonds with G
 - These are known as complimentary base pairs
- Each base is attached to a sugar and phosphate backbone. Together these are known as a nucleotide. DNA is a polymer made of many monomers.



Extracting DNA (Pg 27)

- Mix washing up liquid (breaks down cell membranes) and salt (clumps DNA together)
- Mash fruit (breaks up cells)
- Filter (separates solid lumps of fruit and the now dissolved DNA)
- Gently add ice-cold ethanol (DNA is insoluble in ethanol, so precipitates out to be collected).



Genes & Alleles (Pg 28)

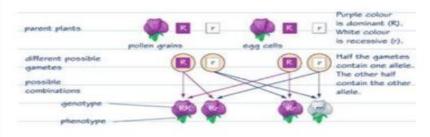
- Genes are short lengths of DNA that code for s specific protein.
- This means they control certain features (e.g. eye colour)
- Alleles are different versions of the same gene (e.g. blue eye gene or brown eye gene.)
- You have two alleles for each gene, one from Mum and the other from Dad.
- Alleles can be dominant (use a capital letter) or recessive (use a lower-case letter)
 - Aa

Genetics keywords (Pg 28)

Key word	Definition	
Gene	A section of DNA that codes for one thing.	
Allele	A different version of the same gene.	
Offspring	The 'children' of an organism.	
Dominant	The stronger allele.	
Recessive	The weaker allele.	
Homozygous	Having 2 of the same allele.	
Heterozygous	Having 2 different alleles.	
Genotype	The different alleles that an organism has e.g. Rr	
Phenotype	The characteristic the organism has. E.g. purple flowers	

Genetic diagrams (Pg 28)

- Used to predict the possible outcomes of a cross depending on the parents genotypes.
- Two kinds



Punnett squares are easier to use

Father's genotype

		Tuttlet's gettotype	
	R	r	
R	RR	r R	
r	Rr	r r	

EDEXCEL 9-1 Combined Science | Biology Topic 3 – Genetics | Required Knowledge

CPG F & H tier: pages 6, 28-31

Probabilities (Pg 28)

 Possible outcomes are represented as probabilities.

	R	
R	RR	r R
r	Rr	r r

- RR = 1/4 = 25% = 0.25
- Rr = 2/4 = 50% = 0.50
- Rr = 1/4 = 25% = 0.25

Sex determination (Pg 29)

- The sex of a child dependent on the 23rd pair of chromosomes (either X or Y)
 - XX = woman
 - XY = Man
- Use a Punnett square to show the probability of having a boy or girl.

		possible female gametes	
		(8)	(W)
possible	(8)	NOX Exercision	100 Semale
gametico	(F)	XY .	XY make

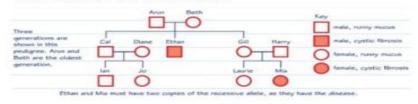
- XX = 2/4 = 50% chance girl
- XY = 2/4 = 50% chance of boy

Variation (Pg 30)

- Differences in the same species is known as variation.
- Variation can be inherited from parents (e.g. eye colour)
- Variation can be environmental (e.g. a scar or tattoo)
- Variation can be a combination of both inheritance and environment. (e.g. weight)

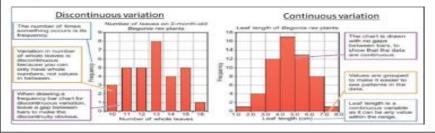
Pedigree charts (Pg 29)

- Used to track genetic disorders which can be passed from parent to child.
- Parents can be carrier of the gene that causes the disease but not suffer with the disease.



Studying variation (Pg 6)

- Data gathered can be either continuous (data can be any value in a range) or discontinuous (data can only take on a limited number of values)
- Plotted on bar graphs with differences in how each is plotted.



Mutation (Pg 30)

- Mutations are caused by changes to the original DNA code in an organism.
- Mutations can cause changes in phenotype if the code of certain genes is changed.
- These changes to specific genes bring about different alleles.
- Mostly mutation cause no change to phenotype at all.

Human Genome Project (Pg 31)

- Complete map of the human genome.
- Decoding the base pairs making up all the genes in our DNA.
- Took 13 years to complete.
- Advantages
 - Predicting and preventing inherited diseases (see if genes known to interact to cause like heart disease or cancer present – make changes to lifestyle accordingly)
 - Testing and treatment for inherited disorders (look to see if disease exists before baby is born)
 - Development of new drugs where known interactions between drugs and genes is known.
- Disadvantages
 - Stress/worry (if you possess a known disease gene)
 - Gene-ism (people pressured not to have a baby of they have a known gene)
 - Discrimination (people with known genes prevented from getting jobs or health insurance)

EDEXCEL 9-1 Separate Science | Biology Topic 3 - Genetics | Required Knowledge

RNA polymerase

DNA template

CPG Biology: pages 36-37. 40-41.

Transcription & translation (Pg 36)

- Proteins made in two stages

Transcription

- Uses mRNA to read the code on the DNA strand
- Base pair Uracil (U) instead of thymine (T)
- RNA polymerase binds to a region of non-coding DNA in front of a gene.
- The two DNA strands unzip and the RNA polymerase moves along one of the strands of the DNA.
- It uses the coding DNA in the gene as a template to make the mRNA. Base pairing between the DNA and RNA ensures that the mRNA is complementary to the gene.

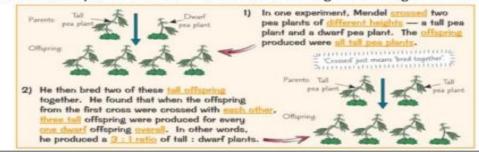


Translation

- mRNA binds to a ribosome (site of protein synthesis)
- Protein is then assembled
- Amino acids are brought to the ribosome by another RNA molecule called transfer RNA (tRNA).
- The order in which the amino acids are brought to the ribosome matches the order of the base triplets in mRNA. Base triplets in mRNA are also known as godons.
- 3) Part of the tRNA's structure is called an anticodon it is complementary to the codon for the amino acid. The pairing of the codon and anticodon makes sure that the amino acids are brought to the ribosome in the correct order.
- 4) The amino acids are joined together by the ribosome. This makes a polypeptide (protein).

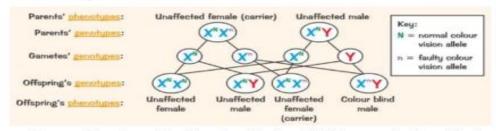
Gregor Mendel (Pg 37)

- Identified the presence of dominant and recessive genes through his work on peas



Sex-linked disorders (Pg 40)

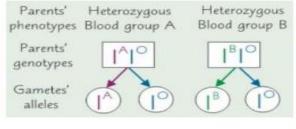
- X and Y chromosomes are a different length (Y is shorter)
- Genes present on the longer part of the X chromosome automatically expressed in the phenotype of a boy as there is no corresponding gene to compete with it.
- Sex-linked disorders more likely to be seen in boys because of this.
- For example: colour-blindness

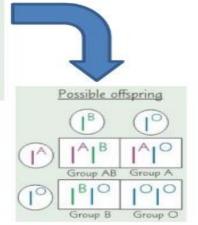


 No possible colour blind female offspring, 50% chance of colour blind if having a boy.

Blood groups (Pg 41)

- Four blood groups (A, B, AB & O).
- Three possible alleles (IO, IA& IB) this is known as codominance
- I^A & I^B are codominant with each other, I^O is recessive
- Blood group AB caused by having IAIB genotype



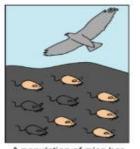


EDEXCEL 9-1 Combined Science | Biology Topic 4 - Natural Selection and Genetic Modification

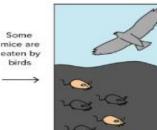
CPG F & H tier: pages 32-36.

Natural Selection (p32)

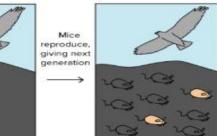
- 1. Genetic variation exists in populations because of mutations
- 2. Selection pressures happen (competition, predation etc)
- 3. Some individuals are better adapted to the conditions
- They are more likely to survive and reproduce 'survival of the fittest'
- 5. The alleles causing the variation are more likely to be passed on
- 6. Individuals less well adapted die



A population of mice has moved into a new area where the rocks are very dark. Due to natural genetic variation, some mice are black, while others are tan.



Tan mice are more visible to predatory birds than black mice. Thus, tan mice are eaten at higher frequency than black mice. Only the surviving mice reach reproductive age and leave offspring.



Because black mice had a higher chance of leaving offspring than tan mice, the next generation contains a higher fraction of black mice than the previous generation.

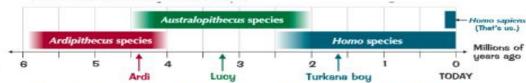
Kingdom

Phylum

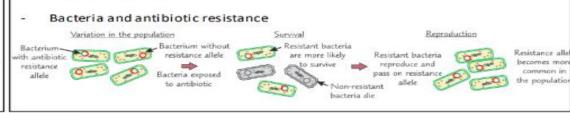
Order.

Evidence for Evolution (p32/33/34)

- Fossils arranged in date order show gradual changes in organisms over time
- Key hominid (human-like) fossils:



- Over time the features of the fossils changed from more ape-like to more human-like; arms got shorter, legs got longer, feet became adapted for walking not climbing, brain got bigger
- Tools found with the fossils of Homo species also got more complex over time (they help date fossils using carbon dating on wood or looking at depth in older rocks



Classification (p35)

- Organisms are classified (grouped) using similarities and differences
- 5 kingdom classification system
- Animals, plants, fungi, prokaryotes (singlecelled organisms with no nucleus, protists (single-celled organisms with a nucleus/eukaryotes)
- Kingdoms are subdivided to smaller groups with more in common
- 3 Domain classification system
- Technology and understanding of DNA led to a new classification system with 3 large groups (prokaryote kingdom split into 2)
- Eukarya: animals, plants, fungi and protists
- Bacteria: single celled organisms with no nucleus
- Archaea: organisms which look like bacteria but have difference in DNA

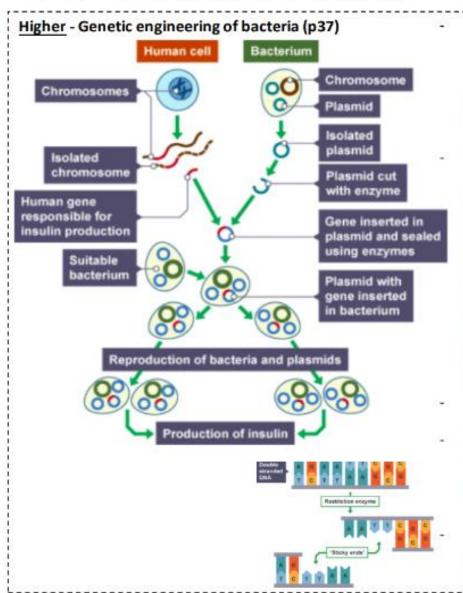
Breeds and Varieties (p35)

- Breeds = animals e.g. dog breeds
- Varieties
 plants
 e.g.
 apple
 varieties

Selective Breeding (p36)

- 1. Humans choose organisms with the characteristics they want
- They breed them together
- They select the best of the offspring, and breed them together
- Continue for several generations until all offspring have the desired characteristic
- Useful in farming e.g. producing animals with more milk or meat
- However, it reduces the gene pool, the best organisms are always used and they are closely relate = inbreeding which can cause health problems
- Also the lack of variation in the population means that if one organisms is affected by a new disease the others are also likely to be affected

EDEXCEL 9-1 Combined Science | Biology Topic 4 - Natural Selection and Genetic Modification | CPG F & H tier: pages 37.



Genetic engineering changes an organisms DNA to introduce desirable characteristics It uses vectors (carriers). There are 2 types: Plasmids, which are circular molecules of DNA which can be transferred between bacteria Viruses which insert DNA into the organism the infect It also uses 2 types of enzyme: Restriction enzyme to cut DNA at specific pointleaving 'sticky ends' Ligase to join pieces of DNA using sticky ends

Genetic engineering in agriculture (p37)

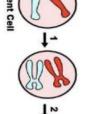
- Used to produce crops resistant to herbicides so weeds can be killed without killing plants
- Used to make crops resistant to insect pests to improve yields (feed a growing population) and reduce use of pesticides
- Concerns about effect on the organism, effect on food chains and human health and about transfer of genes out into the environment-'superweeds'
- Can produce more food in other ways to avoid these risks e.g. use of fertilisers, biological control of pests by introducing predators (although this can cause problems as they are usually non-native)

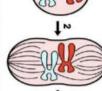
Don't forget to try the revision questions for topics 3 & 4 on page 38!

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

Mitosis (p20)

- Type of cell division used for growth and repair







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

Prophase – nucleus breaks down and spindle fibres appear. Chromosomes

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

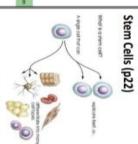
the cell using spindle fibres. Anaphase – chromosome copies are separated and move apart to each end of

Telophase — a new nuclear membrane forms around each set of chromosomes.

Cytokinesis — new cell membrane forms to separate the 2 daughter cells.

IPMATC





formation of Differentiation =

specialised cells

into any specialised cell embryos can differentiate Embryonic stem cells found in

change

using percentage Measure growth

7 8 -

chart for boys, aged O-1 year

differentiate into the type of cell they can Adult stem cells are limited in

700 W Z

differentiate into any cell shoots and roots and can meristem cells are found in Plant stem cells called

- N W 4 55 6

Ethical issu Lots of potential uses

9 10 11

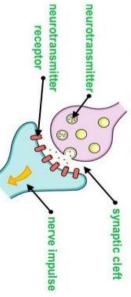
Or using 9 8 percentile charts 7 which divide a surements 6 measurements 4 from a large group into 100 2 equal sections > 1

Meiosis (p26)

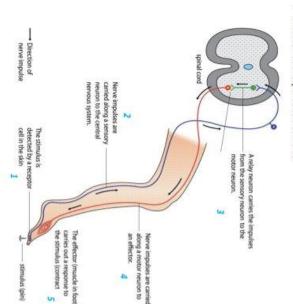
- Type of cell division used to form gametes (sperm and egg cells)
- Produces 4 genetically different daughter cells from 1 parent cell
- copied in the same way as mitosis The chromosomes are
- chromosomes line up along the middle of the Pairs of copied
- The pairs separate
- along the middle of the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

Reflexes (p24) An automatic response to a stimulus

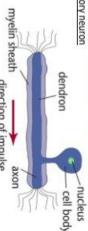
Synapses (p24)
A synapse is a junction between two neurones across which electrical signals must pass



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



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

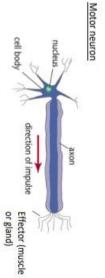


topics 1 & 2 on page 25! Don't forget to try the revision questions for



- cell body

direction of impulse

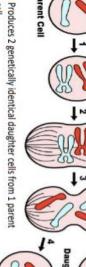


CPG Biology: pages 24-26. 32.

Mitosis (p24)

Type of cell division used for growth and repair





chromosome copies stay attached.
Prophase – nucleus breaks down and spindle fibres appear. Chromosomes become visible

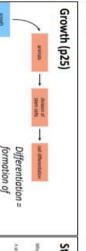
Interphase - cell makes extra sub-cellular parts. DNA replication occurs,

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

chromosome copies are separated and move apart to each end of

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

IPMAT



- formation of aged O-1
- change percentile charts Measure growth using percentage 7 W _ chart for boys
- measurements & 4 equal sections → group into 100 4 5 6 7 Age (month 00 9 10 11

Reflexes (p29)

Nervous System (p27)

An automatic response to a stimulus

Stem Cells (p26)

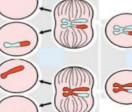
- Embryonic stem cells found in into any speci embryos can differentiate
- differentiate into the type of cell they can Adult stem cells are limited in
- Lots of potential uses
- differentiate into any cell shoots and roots and can Plant stem cells called eristem cells are found in

- NWAWA

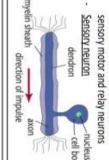
Meiosis (p32)

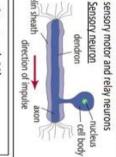
- to form gametes (sperm and egg cells) Type of cell division used
- different daughter cells Produces 4 genetically
- copied in the same way as from 1 parent cell
 The chromosomes are
- along the middle of the Pairs of copied
- The chromoso The pairs separate s line up
- The copies within each along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

chromosome instead of 2)









Eye Structure (p30) Conjuctiva Lans Z

Synapses (p29)
A synapse is a jur

junction between two neurones across

Brain (p29)

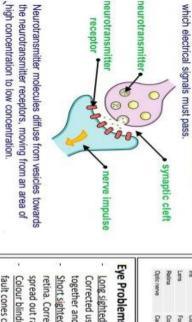
or gland)

- consciousness. Left = right intelligence, memory, speech and Cerebral hemispheres: largest part, centre of
- Cerebellum: controls muscle function, speech learning thought, emotions, reading writing and
- Medulla oblongata: centre for controlling respiration, circulation and digestion
- CAT or PET Studied using

Eye Problems (p30)

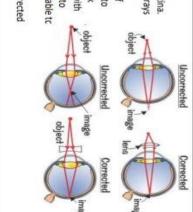
- together and move image forwards Long sighted: image forms behind retina. Corrected using convex lens to bring rays
- spread out rays and move image back Short sighted: image forms in front of retina. Corrected using concave lens to
- difficulty differentiating colours. Not able to fault cones cells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

n't forget to try the revis ons for topics 1 & 2 on pa



0

receptor



	¿Cuál es tu festival favorito?	What is your favourite festival
	Mi festival favorito es	My favourite festival is
*	La Navidad	Christmas
2	La Nochebuena	Christmas Eve
	La Nochevieja	New Year's Eve
JAN 1	El día de año nuevo	New Year's Day
	El día de los Reyes Magos	Three Wise Men Day
	La Semana Santa	Easter / Holy Week
A	Las hogueras	The bonfires
95	La feria de abril	The April fair
	Día de muertos	The day of deaths
	El cumpleaños	Birthday
1	El carnaval	Carnival
	La feria	Fair
	El día de la madre	Mother's day
	El día del padre	Father's day
	El día festivo	Bank Holiday
A TO	El encierro	The bull running
	Las fallas	Fallas
Å	Els castells	Human towers
*	La Tomatina	Tomato festival

9.12 FestivalsSpanish Vocab List



¿Qué hacemos para celebrar?	What do we do to celebrate?
Me levanto	l get up
Me ducho	l shower
Me visto	I get dressed
Recibo regalos	I receive presents
Soplo velas	I blow candles
Monto el árbol de Navidad	I put up the Christmas tree
Compro ropa nueva	I buy new clothes
Voy a la iglesia Voy a la mezquita	I go to church I go to the mosque
Voy a la plaza	I go to the square
Voy a casa de	I go to's house
Ilega	arrives
Comemos	We eat
Ayunamos	We fast
Jugamos a juegos de mesa	We play table games
Celebramos	We celebrate
Lo paso muy bien	I have a good time
Me acuesto	I go to bed
Voy a dormir	I go to sleep

¿Cómo es?	How is it like?
Emocionante	Exciting
Conmovedor	Moving
Divertido	Fun
Insoportable	Unbearable
Impactante	Striking

¿Qué pasa en los encierros /	What happens in the bull
las corridas de toros ?	running / bull fighting?
San Fermín	A bull running festival held
	in Pamplona every July
Los toros	The bulls
Las calles	The streets
Correr	To run
Las corridas de toros	Bullfighting
Los encierros	Bull running
La plaza de toros	The bullring

¿Qué pasa en las Fallas?	What happens in Fallas?
Fallas	A festival held in Valencia every March
La hoguera	The bonfire
El cartón	Cardboard
Las fallas	Sculptures made of cardboard
Los fuegos artificiales	Fireworks
Los petardos	Firecrackers
Las bandas de música	Music bands

¿Qué pasa er	ı la Tomatina?	What happens in the tomato festival?
La gente		People
Lanza tomate	es	Throw tomatoes
Aplasta toma	ites	Squish tomatoes
Se ensucia		Gets dirty
Tiene lugar e	n Buñol	Takes place in Buñol
La batalla		The battle
El caos		Chaos





9.12 Geography & History Spanish Vocab List



La geografía	Geography
El país	The country
La región / la comunidad	The region
La ciudad	The city
El pueblo	The town/ village
La costa	The coast
Las islas	The islands
El interior	The inland regions

La historia	History
Castellano / Español	Spanish language
La Reconquista	Period of time when the
	Christian kingdoms
	"reconquered" the península
	from the Muslims (Moors).
Moros	Moors – Muslim inhabitants of
	modern-day Spain in
Conquistadores	Conquerors of American
	territories in the 16th century
La Colonización	Colonisation of the Americas
La Guerra Civil Española	The Spanish Civil war between
	1936 and 1939
La Dictadura fascista	The fascist dictatorship in
	Spain between 1939 and 1975
La Transición	Transition into democracy
	after the dictatorship
La monarquía parlamentaria	The current political system in
	Spain: a parliamentary
	monarchy, like in the UK

El lenguaje de todos los días	Everyday language
¡Hola!	Hello
Buenos días	Good morning
Buenas tardes	Good afternoon
Buenas noches	Good night
¿Cómo te llamas?	What's your name?
Me llamo	My name is
¡Adiós!	Goodbye
Hasta luego / hasta la vista	See you later
Por favor	Please
Gracias	Thank you
Muchas gracias	Thanks a lot
De nada	You are welcome
Perdone / Perdón	Excuse me / Apologies
Lo siento	I'm sorry
¿Habla inglés?	Do you speak English?
Hablo un poco de español	I speak a bit of Spanish
No entiendo	I do not understand
¿Dónde hay un buen	Where is a good
restaurante?	restaurant?
¿Dónde está el centro / la playa?	Where is the centre / the beach?
Me he perdido	I am lost
Busco un hotel / un hospital	I am looking for a hotel /
/ un banco	hospital / bank
Busco la estación / el	I am looking for the station
aeropuerto / la parada de	/ airport/ bus stop
bus	Could you take a misture ?
¿Me podría sacar una foto?	Could you take a picture?
¡Cuidado!	Be careful!
¡Vamos!	Let's go!

Festivals Year 9.12 Spanish – Knowledge Organiser

3 Time frames



The preterite tense of regular verbs is formed on an infinitive stem with the following endings:

Infinitive:	hablar	comer	vivir
Stem:	habl-	com-	viv-
Yo (I)	hablé	comí	viví
Tú (you)	hablaste	comiste	viviste
él/ella/usted (he/she/you)	habló	comió	vivió
Nosotros (We)	hablamos	comimos	vivimos
Vosotros (You all)	hablasteis	comisteis	vivisteis
ellos/ustedes (They/ you all)	hablaron	comieron	vivieron

Ser / Ir (To be /to go)

fui (I was / I went)
Fuiste (You were / You went)
Fue (he/she was // he /she went)
Fuimos (we were / we went)
Fuisteis (you all were / you all went)
Fueron (they were /they went)

The future tense of regular verbs is formed adding the endings e,as,a emos, eis, an to the infinitive.

FUTURE SIMPLE			
Person	Verbs		
	Hablar	Comer	Vivir
Yo	hablar - é	comer - é	vivir - é
Tú	hablar - ás	comer - ás	vivir - ás
Usted, él, ella	hablar - á	comer - á	vivir - á
Nosotros-as	hablar - emos	comer - emos	vivir - emos
Vosotros-as	hablar - éis	comer - éis	vivir - éis
Ustedes, ellos, ellas	hablar - án	comer - án	vivir - án

Regular verbs – present tense endings				
	AR verbs ER verbs IR verbs			
1	О	0	0	
you	as	es	es	
he/she/it	а	е	е	
we	amos	emos	imos	
you(pl)	áis	éis	ís	
they	an	en	en	



	Textiles Hierarchy of Key words	Year 9 Textiles Knowledge Organiser		The 6 R's when it comes to sustainability	
		Equipment	Use	S 1 7	
	Plain seam	Bobbin	A bobbin is a cylinder, to which cotton thread is wrapped around. It is found in the bottom part of a sewing machine.	= (1) = (1)	
Tier 3 'Academic' keywords.	analyse sustainable	Overlocker machine	An overlocker does not replace a sewing machine. Its primary function is to clean finish a raw edge, giving the project a professional appearance		
Tier 3 nic' ke	embellishment			RETHINK REFUSE REPAIR	
3 eyword	Woven/ bonded/ knitted	Quick unpick	It is used to quickly remove stitches and seams.		
ţ\$	Free machine function embroidery develop	Tailor's chalk	Used to mark on to fabric. It is easily washed off.		
	Complementary colours			V W	
Valuable most les	contrast environment fastening	Measuring Tape	It is a flexible ruler that can be used for body measurements, tailoring and dressmaking. It is flexible to measure fabric and curves of the body.	REDUCE REUSE RECYCLE	
Tier 2 Valuable keywords used in most lessons every lesson.	compare embroidery equipment iron	Batik	Right Side of False:	One image is called a 'motif'	
s used in / lesson.	context appliqué effect improve	Batik is a type of resist printing	Wrong side of fabric of fabric	The motif has been repeated to make two different patterns	
Ba in a	colour design shape machine	process in which wax is applied to the fabric in specific areas. When the wax hardens, the fabric is	Hem Seam		
Tier 1 Basic keywords used in almost every lesson	pattern line Texture	submerged in dye. The wax prevents the dye from reaching the fibers. The fabric is then boiled to	What is the difference between a hem a seam?	n and Stategilee SS S	
yord vord very	theme tone	remove the wax. This fabric-dyeing	A hem is a neat non fraying edge mad		
s used lesson.	thread Fabric sew	method makes cotton look crackled. Batik is characterised by a unique, nearly pattern-less appearance.	folding fabric over and stitching it dow seam is a line along which pieces of c are joined by sewing.		

Use these in your writing and speaking

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

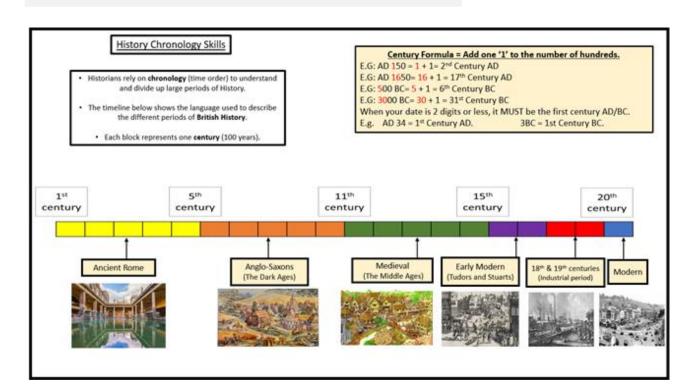
Without a doubt...

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







Sentence Starters - DT

I have designed...because

My project was about...

I found... during my research

My design is suitable for...

I have learnt how to...

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

The area I found the most challenging was...

Equipment I have used include...

I would improve my work by...

I am pleased with my finished product because...

Sentence Starters- Food and Nutrition

In order to work hygienically/safely I made sure I

I worked safely when in the kitchen by...

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

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

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

Sentence starters- Textiles

I have designed....

The context of my design is...

My research is useful because...

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

By researching I have found out....

I researched into....

My design is suitable for.....

My design is based upon...

I have planned to..

The order I will work in is...

The most enjoyable part of m project was...

The area I found most challenging was...

I am most pleased with...

I am pleased with my finished project

because...

Equipment I used was...



The periodic table of the elements

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

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

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

Subject websites

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

English

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

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

Maths

https://corbettmaths.com/

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

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

Science:

https://www.bbc.com/bitesize

https://www.senecalearning.com/

https://www.memrise.com/

Geography

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

Bitesize

Cool Geography

History

Seneca Learning

BBC bitesize - use Edexcel resources for GCSE.

Art Websites

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

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

https://www.incredibleart.org/

Computer Science and IT.

www.mrahmedcomputing.co.uk

Drama

https://youtu.be/VeTpob9LBM8

https://youtu.be/wISEU13mRBE

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

DT:

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

http://technologystudent.com/

https://www.senecalearning.com/

PE

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

RS

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

<u>Timetable</u>

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