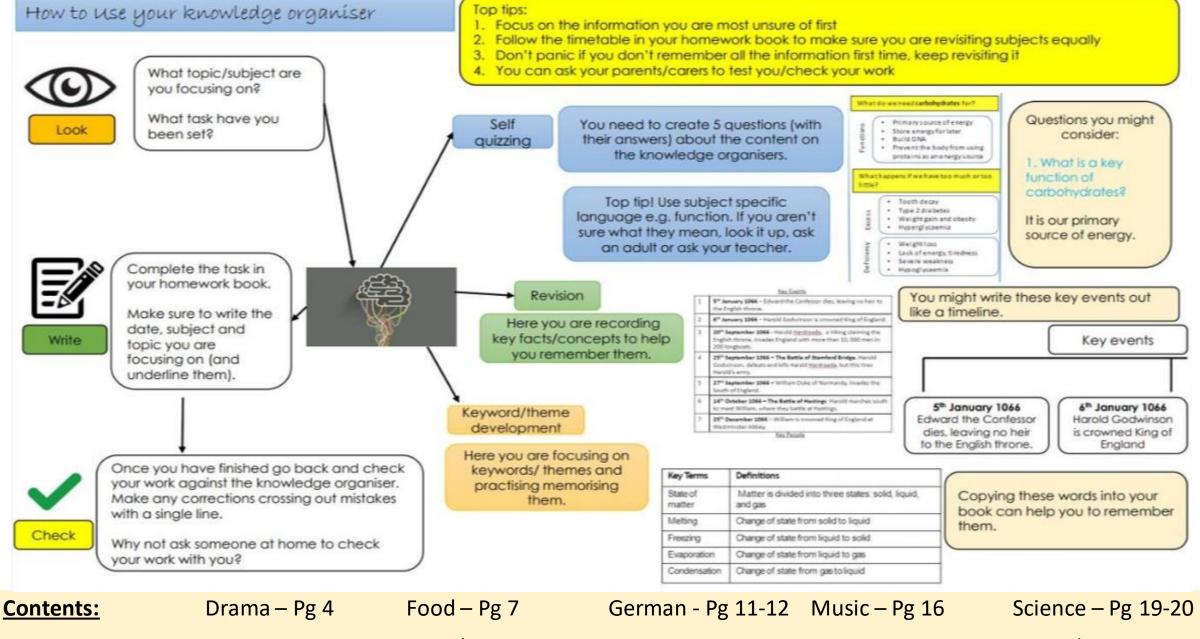


28 th February 2022	Week A
7 th March 2022	Week B
14 th March 2022	Week A
21st March 2022	Week B
28 th March 2022	Week A
4 th April 2022	Week B

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

Knowledge Organisers 2021-22 Year 9 – Term 4

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



<u>contents.</u>	Diama 18 4	1004 167	German 18 11 12	Wasie 18 10	30101100 1 g 13 20
Art Pg 2	DT – Pg 5	French – Pg 8-9	History – Pg 13	PE – Pg 17	Spanish – Pg 21-22
ICT Pg 3	English – Pg 6	Geog – Pg 10	Maths – Pg 14-15	RS – Pg 18	Textiles - Pg 23

Year 9 Present Project

Term 4

Signs Of The Times

In this SOW we will investigate:

- · Architecture, and how it can be used to create artwork
- Famous architecture of the past, present and future, in our city, country and around the world
- A diverse range of artists, craftspeople & designers and explore these artists and the concepts within their work.
- Explore and experiment with a range of materials, techniques and processes to create a final outcome consisting of mixed media collage and drawing of a street scene

What GCSEs do I need to be an architect? A lot of people ask the

question "What GSCSs do I need to be an architect?" The truth is, entry requirements are different for each degree course.

You usually need a portfolio of your dra wings and photographs.
Universities are not too prescriptive about what A-levels you need, but often look for a mixture of arts/humanities and maths/science subjects. A-levels in maths and subjects like art or and design will help.

WHAT DO ARCHITECTS DO?

Architects use their technical and creative skill to design structures that suit the requirements of their clients

As an architect, you'll design new buildings or extensions or alterations to existing structures and advise on the restoration and conservation of old properties. You may work on individual buildings or on large redevelopment schemes, and your responsibility can extend to the design of the surrounding landscape and spaces. Working closely with clients and users, you'll make sure that projected designs match requirements and are functional, safe and economical, and in some cases highly innovative. You'll usually control a project from start to finish and work with a number of construction professionals, including surveyors and engineers.

Develop Ideas – Experiment – Record – Create Personal Response



Key word Definition **Photomontage** Cutting, gluing, rearranging and overlapping two or more photographs into a new image. Lino print A form of block printing that involves carving a pattern or design into a linoleum, rubber or vinyl surface that can then be printed from. Focal point The centre of interest or activity. Engineering The branch of science and technology concerned with the design, building, and use of engines, machines, and structures. Mixed media A term used to describe artworks composed from a combination of different media or materials A piece of art made by sticking various different materials such as Collage photographs and pieces of paper or fabric on to a backing. Architecture The art or practice of designing and constructing buildings.

Pg 3

Year 789 - Data Representation

ASCII TABLE

Number Bases

Denary

Base 10 Numbers - 23, 5

Binary

Base 2 Numbers - 01010101

128	64	32	16	8	4	2	1		1
0	0	0	0	1	0	1	0	E	10
0	0	1	1_	1	1	1	0	=	62
1	0	0	0	1	1	1	1	=	143
0	0	0	0	0	0	0	1	=	1
1	1	1	1	1	1	1	1	=	255

Binary Arithmetic

Rules of Addition

0 + 0 = 0

0 + 1 = 1

1 + 0 = 1

1 + 1 = 0 Carry 1

1 + 1 + 1 = 1 Carry 1

OVERFLOW ERROR

When and extra bit is created to represent a number

Storage Units

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

÷8	1	Bit		
÷1000	1	Byte	1	x8
÷1000	1	Kilobyte	1	x1000
+1000	1	Megabyte	1	x1000
+1000	1	Gigabyte	1	x1000
		Terabyte	1	x1000

				1	1	1		
	0	0	0	0	1	1	1	0
+	1	0	1	0	0	0	1	0
	1	0	1	1	0	0	0	0
			1	1	1	1		
	1	1	0	1	0	0	10	1
+	0	0	0	0	1	1	1	0
	1	1	1	0	0	0	0	1
1			1	1	1			
n	1	1	0	0	1	1	0	0
+	1	0	0	1	1	1	0	1
1	0	1	1	0	1	0	0	1

_								
		=	0	0	0	1	X	2
					0	0	0	2
(0	0	1	х	0	0	0	2
		0	0	0	0	0	0	2
8	x	0	0	0	0	0	0	2
F	0	0	0	0	0	0	0	1

ASCII and Unicode

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

Unicode

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

	A	S	C	1	1														
	C	=	67	=	0	1	0	0	0	0	1	1	=	8	bits		8	X	4
	A	1	65	=	0	1	0	0	0	0	0	1	=	8	bits		=	32	bits
1	T	=	84	=	0	1	0	1	0	1	0	0	=	8	bits		32	1	8
1	J	=	33	=	0	0	1	0	0	0	0	1	=	8	bits		=	4	bytes
Į.	U	N	1	C	0	D	E												
	0	=	0	0	0	0	1	0	0	1	1	1	1	1	1	0	1	0	(2554)
	稖	=	0	0	0	1	0	0	0	0	0	1	0	0	0	1	1	1	(4167)

Representing Images

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

Colour/Bit Depth - Amount of bits in each pixel (amounts of colours available)

Factors that affect the quality and file size:

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

Working out file size:

File size (bits) = Resolution x Bit Depth



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 - Term 1 - Pewter Project



Select one symbol from the selection above.

Create a logo for a product/company of your choice using your chosen symbol.

You can achieve this by modifying your chosen symbol by applying a range of composition techniques to develop its shape, form, and visual appeal. Be as creative as possible.

Logo design principles

- Simple needs to be easily identifiable at a glance.
- Memorable should be easily recalled after just one look.
- Original Create a unique design that cannot be confused with another.
- Timeless should be modern yet timeless and should avoid trends.
- Versatile can be used in a variety of sizes and colours.
- Appropriate should be appropriate for the intended audience.

Keywords

Malleable – able to be hammered or pressed into shape without breaking

Innovative- new and original

Analysis - detailed examination of the something Annotation- analysis added to a text or diagram Alloy - a metal made by combining two or more metallic elements

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.

2D Design Basic Tools

SELECT – Use this tool to select different to DESIGN
highlight objects.

LINE – This tool creates straight lines. Click to start the line, extend out and click to finish.

O 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.

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

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

CAD/CAM

CAD stands for Computer Aided Design.

It involves designing products on a <u>computer</u>, rather than using a pencil and paper. CAD packages include <u>20 deswing noftware</u> (e.g. Adobe* illustrator*, CorelDRAW*, TechBoft <u>20 Design* and ArtCAM*)</u> and <u>30 modelling noftware</u> (e.g. SolidWorks*).

CAD helps designers model and change their designs quickly. It's easy to experiment with alternative colours and forms and you can often spot problems before making anything.

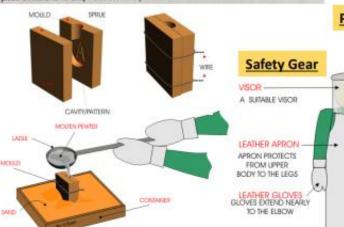
In 3D programs, you can view the product from all angles-CAM stands for Computer Aided Manufacture.

It's the process of manufacturing products with the help of computers-

CAD software works out the coordinates of each point on the drawing. These are called $\underline{x.y.z}$ coordinates — x is the left/right position, y is forwards/backwards and z is up/down. The point where x, y and z meet is (0.0,0) — the <u>datum</u>.

CAM machines are computer numerically controlled (CNC) — they can follow the x.u.z coordinates and move the tools to out out or build up your design.

For example, some miling machines are CAM machines. They remove material from a larger piece of material to shape and create a product.



Isometric Drawing Shows Objects at 30°

- Isometric drawing can be used to show a <u>3D picture</u> of an object.
 It doesn't show perspective (things don't get smaller in the distance).
- but it's easy to get dimensions right.
- 3) There are three main rules when drawing in isometric:
 - Virtical edges are drawn as vertical lines Horizontal edges are drawn at 307
 - Parallel sulpen appear an parallel from

Pas drawing's been done on sometric dot paper. You could use plant paper and a 307/807 set square instead.

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 subold to make any other 3D shape.



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



Evaluation

Designers evaluate their finished products or prototypes in order to test whether they work well and if the design can be corrected or improved. Whatever you have designed it is important to evaluate your work constantly during the project.

Evaluation can take a variety of forms:

- General discussion with other pupils, staff and others.
- Questionnaires / surveys carried out at any time during the project.
- Your personal views, what you think of existing designs.
- Most important of all what do you think of your designs, prototypes and finished products?
- Can you think of any other ways of evaluating your work?

Unit 3: Identity Poetry

Benjamin Zephaniah: Born and raised in Birmingham. His poetry is influenced by music, poetry and street politics of Jamaica. Uses humour, rap and dub-rhythms to make poetry accessible. Zaffar Kunial was born in Birmingham to an English mother and a Kashmiri father. He now lives in Hebden Bridge. A.K.Blakemore - her poems explore a range of subjects: having a broken heart, exploitation, pop-culture, sunshine and covering more obscure topics. Spite inspired her to write. She was born in London; she still live in London. She can be described as rebellious and confrontational. John Agard: Born in Guyana, South America in 1949, Agard moved to Britain in the late seventies. His poems explore cultural differences, class divisions and subverted racial stereotypes. Sujata Bhatt (1956) grew up in India but emigrated with her family to the United State in 1968. Honey Birch is a Slam Poet; she is Chines and was adopted by white parents. Elizabeth Acevedo is a Dominican-American poet and author. She is also a National Slam Poetry Champion.

Saeed Jones was born in Memphis and raised in Lewisville, Texas. His poems often examine race, desire, power, and grief, and incorporate mythology. Carol Ann Duffy was born in Glasgow in 1955 to a Scottish father and an Irish mother. Duffy was the first LGBT poet to be nominated as Poet Laurette. Vanessa Kisuule is a Bristol City Poet and performer, winner of many slam competitions. Maya Angelou was a poet and civil rights activist. Lucille Clifton: represents African-American experience and family life during the Civil Rights Movement. She was born in New York in 1936

Poems

- I Love Me Mudder. Explores a relationship with his mother. The speaker shows how he values his mother and that their love is true and pure
- "Us" by <u>Zaffar Kunial</u> describes the ways that the word us means both separation and unity and how that gap could be bridged
- 3. *Peckham Rye Lane* by <u>Amy Blakemore</u> is a portrait of a street in London and the chaos, absurdity, and peace.
- 4. Oxford Don. The speaker shows his frustration with the superior attitude of the Mr Oxford Don – a university professor - with regards to immigrants like himself.
- 5. Search For My Tongue. The poem's speaker is someone living in a foreign country who fears forgetting her native language. It explores how our language is linked to one's identity.
- A Chinese Kid in A White Family Honey Birch's poem is a one which shows the absurdity of stereotyping a person who has dual heritage. The speaker is Chinese adopted by white parents.
- 7. .Names: Xiomara is the novel's protagonist. She is a 15-year-old Dominican American teenager living in Harlem - a twin, trying to find her voice. Poetry is the way that allows her to do this; it allows her to question her upbringing and to defend herself, until she is able to find her true self.
- 8. Boy In A Stolen Evening Gown. The speaker is someone who cross dresses and identifies as being gay. He wants to be accepted for who he is.
- "In Mrs Tilscher's Class" paints a vivid picture of a young child's experience
 in primary school, under the tutelage of the -loved Mrs Tilscher. The poem
 also traces the end of the child's journey from innocence to the tumult of
 adolescence
- 10. **Hollow:** A response to the destruction of the statue of Edward Colston, the slave owner.
- 11. **Still I Rise**. The poem is an assertion of the dignity and resilience of marginalized people in the face of oppression. It is also a celebration of her identity as a powerful black woman.
- 12. You Celebrate With Me. Throughout this poem, the <u>speaker</u> explores her journey and the obstacles that were in her way to becoming her true self

Tier 3 vocabulary 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.

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

Alliteration – the repetition of the same sound

Sibilance - the repetition of the 's' sound

Absurdity

Confrontational

Tier 2 vocabulary

- Heritage
- Native
- Resilience
- Identity
- Adolescence
- Innocence
- Oppression
- Stereotype
- Myopic
- Bigot
- Sexuality
- Repressed
- Tolerance

Themes

Resilience: poets and their speakers show an unwillingness to be defeated; they present strong individuals who have managed to rise above their oppression.

Sexuality: in these poems, some speakers show their sexuality as a means of self-expression and power; others are less bold, uncertain of how others may respond to their sexuality.

Language and identity: some poets explore the importance of language and words which are a way that people think of their own identity; in a different way, some poets show how language is used as a means of power to make others feel unwelcome.

What do we need proteins for?

· Build enzymes and hormones

- 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 ce SS

Fu

nc

tio

ns

- Kidney and liver diseases
- Weight gain

De

en

CV

- Kwashiorkor
- 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?

Fu Primary source of energy nc

Store energy for later

Build DNA

Prevent the body from using proteins as an energy source

What happens if we have too much or too

Tooth decay Ex

Type 2 diabetes ce · Weight gain and obesity 55

Hyperglycaemia

De fici

cy

tio

ns

- Weight loss
- Lack of energy, tiredness en Severe weakness
 - Hypoglycaemia

Micros

Build & Protects

Muscle

found in most, daily

E some plants



Macros

Provides Long

Lasting Energy

during & creat

linerals Consumed by Plants & Animals

Quickest Source of

Energy

found in fluits:

veggies & graim

Animals found in meet dairy & plants

found in meat, delay 5 plants

What do we need fats for?

nc tio

ns

SS

chunks

Textured

vegetable

protein

(TVP)

- Source of energy
- Insulation
- Dissolve vitamins
- **Build hormones**
- Build cell membranes

What happens if we have too much or too little?

- Obesity
- Ex Hypertension ce
 - Coronary heart disease
 - Fatty liver disease
 - Type 2 diabetes

De Weight loss fici

 Vitamin deficiency en

 Heart disease Cy · Feeling cold

There are two different types of fats



Visible fats

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

Fats you can see,

often saturated.

such as on meat are









Unsaturated Avocado

Micronutrients

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

Year 9- Food

Food Fortification

During processing, many food products lose their nutritional value.

The function of fortification is to:

- Restore nutritional value of foods.
- Improve nutritional value of foods.
- Make food more suitable for certain groups of consumers.
- Prevent diseases caused by malnutrition.

Some foods are fortified by law:

Wheat, flour and bread	Thiamine	To prevent beriberi disease, help release energy from food.
	Niacin	To prevent pellagra, help release energy from food.
	Calcium	To prevent rickets and osteoporosis.
	Iron	To prevent iron deficiency anaemia.
Vegetable fat spreads	Vitamin A	To prevent growth and eyesight issues, such as night blindness.
	Vitamin D	To prevent rickets and osteoporosis.
Semi-skimmed and skimmed milk	Vitamin A	To prevent growth and eyesight issues, such as night blindness.

Other foods, such as cereals and fruit juices, are fortified voluntarily.



9.11 My school – vocab. list

Quelle est ta matière préférée?

L'anglais

L'espagnol Le français

Le théâtre

Le dessin

Le sport (L'EPS)

L'informatique

La musique

La technologie

La géographie

L'histoire

L'éducation religieuse

L'éducation civique

Les mathématiques

Les sciences

L'histoire/géo

Qu'est-ce que tu en penses?

C'est

Intéressant (e)

Pratique

Utile

Inutile Facile

Difficile

Ennuyeux (se)

Passionnant (e)

Creatif (ve) Important (e)

Trop Très Assez

What is your favourite

subject?

English Spanish

French

Drama

Art PE

Computer Science

Music

Technology

Geography History

RE

PSHE

Maths Science

Humanities

What do you think?

It is

Interesting

Practical Useful

Useless Easy

Difficult

Boring

Exciting

Creative Important

Too Very Quite

Comment est ton uniforme scolaire? Je porte

Une veste/ un blazer

Un pull

Une chemise Un t-shirt

Une cravate

Une jupe

Des chaussettes

Un pantalon

Des chaussures

Un collant

Moche

Beau/belle

(In)confortable

Cher Pas cher À la mode

Démodé

What is your school uniform like?

I wear...

Blazer Jumper Shirt

T-shirt Tie

Skirt

Socks

Trousers Shoes

Tights

Ugly

Pretty (un) comfortable

Expensive

Cheap

Fashionable Unfashionable

La journée scolaire

Je quitte la maison Je vais au collège

Les cours commencent.. Les cours terminent.

Ca dure La récréation

L'heure du déjeuner

Le matin L'après-midi

The school day

I leave home I go to school Classes start...

Classes end...

It lasts... Break

Lunch

In the morning In the afternoon

Quelles sont les règles?

On ne doit pas On ne peut pas

II faut

Il est interdit de Écouter en classe

Utiliser son portable en classe

Porter les bijoux Porter le maquillage

Porter les baskets

Manguer les cours

Être à l'heure Mâcher du chewing-gum

Faire ses devoirs

What are the rules?

You must(n't) You can('t)

You have to

It is forbidden

To listen in class

To use your phone in class

To wear jewellery

To wear make up

To wear trainers

To miss lessons To be on time

To chew gum

To do homework

Qu'est-ce que tu voudrais faire dans le futur?

Réussir mes examens

Recevoir des bonnes notes Faire un apprentissage

Chercher du travail

Faire du bénévolat

Voyager le monde Avoir des enfants

me marier

Apprendre à conduire

Médecin Professeur

Avocat (e)

Mécanicien (ne) Plombier (ière)

Pompier (ière)

Veterinaire

What do you want to do in the future?

To pass my exams

To get good grades To do an apprenticeship

To look for a job

To work as a volunteer

To travel the world

To have children To get married

To learn how to drive

Doctor Teacher Lawver

Mechanic Plumber

Firefighter

Vet

Hairdresser

Coiffeur (euse)

9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs

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



The future tense in French

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

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

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

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

Je veux= I want

Je voudrais = I would like

J'aimerais = I would like

J'espère = I hope

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

-ent

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

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

-issent

-ent

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

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

Comparatives – to express more or less than

- ... est plus + adjective + que is more...adjective...than
- ... est moins + adjective + que is less...adjective... than
- ... est aussi + adjective + que is as...adjective...as

For example:

Ils /Elles (they)

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

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

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

(33)

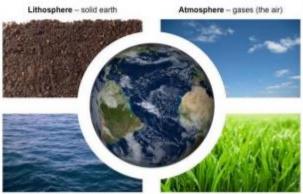
Year 9 Term 4 Geography

How long can we exploit the earths resources?

The Earth's Spheres:

There are 4 main spheres on Earth.
They are all connected and work with
Each other. This is called
'Interdependence'.

We get all of our natural resources from these four spheres.



Hydrosphere - all water

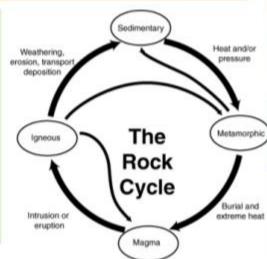
Biosphere - all life

Ecological footprint:

- Today humanity uses 1.6 Earths to provide the resources we use and absorb our waste.
- We use more ecological resources and services than nature can regenerate in the same period
 of time.
- If everybody on Earth lived like we do in most HICs we would reach the 'overshoot' day by May/June.
- If everybody on Earth lived like they do in Vietnam we wouldn't reach 'overshoot' day until Dec 21st

Rocks, Oil and Soil

- Soil is formed due to the weathering of rocks and the wider nutrient cycle.
- It can take between 100-1000 years to form 1cm of soil.
- Importance of soil examples:
 - + growing crops
 - + reducing flood risk



Key Word	Definition
Interdependence	The idea that two or more things are connected and rely on each other
Lithosphere	The Earth's curst, including landforms, rocks and soils
Hydrosphere	The water on the surface of the Earth eg. Oceans and rivers
Biosphere	The living matter on Earth, including all plants and animals
Atmosphere	The thin, fragile layer of gases that surrounds the Earth
Renewable	A resource that can be recreated/replaced/reused eg sunlight
Non-renewable	A resource that cannot be replaced or recreated eg. Coal/oil
Raw Materials	A resource in its natural state, before production. Eg wood, cotton, oil
Finite Resources	Material that has a definite, fixed amount and can therefore eventually run out before it can be replaced
Paris Agreement	A legally binding international treaty on climate change, with a goal of limiting global warming to well below 2 degrees C.
Carbon emissions	The greenhouse gasses produced from human activities such as burning fossil fuels in factories and from car exhausts.

Importance of Oil: Oil starts off as 'crude oil' before being refined

- For fuel for cars/chips/plans
- Production of plastics/clothing/fertiliser

To generate electricity

9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs



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

The future tense in German

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

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

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

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

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

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

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

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

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

Comparatives - to express more or less than

Add 'er' to the adjective, but in words of more than 1 syllable an umlaut is sometimes added too. You must also add als = than klein = kleiner(smaller) lang = länger wichtig = wichtiger (more important)

Mathe ist interessanter als Deutsch

mehr = more/weniger = fewer/besser = better



Was ist dein Lieblingsfach?

Englisch Spanisch Französisch Theater Kunst Sport Informatik

Musik Technologie Erdkunde Geschichte Religion

Mathe/Mathematik Naturwissenschaften

Deutsch

Wie findest du?

Es ist interessant praktisch nützlich nutzlos einfach schwierig langweilig spannend

kreativ

wichtg

ziemlich

zu

sehr

Favourtite Subject.

English Spanish

French Drama

Art PE

Computer Science

Music Technology Geography History

RE Maths Science German

What do think about?

It is

Too

Very

Quite

Interesting Practical Useful Useless Easy Difficult Boring **Exciting** Creative **Important**

9.11 My school – vocab. list

Beschreib deine Schuluniform Ich trage

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

einen Rock Socken eine Hose Schuhe Strumpfhose

hässlich schön (un)bequem teuer billig modisch altmodisch

Describe your school uniform

I wear... Blazer

Jumper Shirt

T-shirt Tie

Skirt Socks

Trousers Shoes

Tights

Ugly Pretty

(un) comfortable

Expensive Cheap Fashionable Unfashionable

Der Schultag

Nachmittags

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

The school day

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

Was sind die Schulregeln?

Man darf(nicht) Man kann (nicht) Man muss Es ist verboten Im Unterricht zuhören Ein Handy im Klassenzimmer haben Schmuck tragen Make –up tragen Sportschuhe tragen Unterricht verpassen

pünktlich sein Kaugummi kauen Hausaufgaben machen

What are the rules?

You are allowed You can('t) You have to It is forbidden To listen in class To have a phone in class To wear jewellery To wear make up To wear trainers To miss lessons To be on time To chew gum

Was möchtest du in der Zukunft machen?

Prüfungen bestehen gute Noten haben eine Lehre machen einen Job suchen freiwillig arbeiten reisen Kinder haben heiraten fahren lernen

Arzt(-in) Lehrer (in) Rechtsanwalt (in) Mechaniker (in) Klempner Feuerwehrmann/frau Tierarzt(in) Friseur/Friseuse

What do you want to do in the future?

To do homework

To pass my exams To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel To have children To get married To learn how to drive

Doctor Teacher Lawyer Mechanic Plumber Firefighter Vet Hairdresser

Context

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

Key Events

2 22nd March 1933 – The first concentration camp opened in Germany – Dachau. 3 1st April 1933 – The Nazi's organised a boycott of Jewish businesses. 4 16th September 1935 – The Nuremburg Laws were passed. 5 5th October 1938 – Jewish people have to hand in their passports and they are stamped with the letter J. 6 9th and 10th November 1938 – Kristallnacht – A night of violence when Jewish shops and synagogues were attacked. 7 15th November 1938 – All Jewish children are expelled from schools. 8 December 1938 – The first Kindertransport arrived in Britain. 9 1st September 1939 – Germany invaded Poland. WW2 began. 10 22nd June 1941 – Germany invaded the USSR. 11 8th December 1941 – The first death camp, Chelmno, begins operation. 12 20th January 1942 - The Wannsee Conference – meeting where leading Nazi's decided to deport all European Jews to death camps. 13 April-May 1943 – The Warsaw ghetto uprising. 14 7th May 1945 – Germany surrendered to Britain and France. 15 9th May 1945 – Germany surrendered to the USSR.	1	30 th January 1933 – Hitler became Chancellor of Germany.			
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7 May 25-75 Schmany surrendered to britain und Harrier	13	April-May 1943 – The Warsaw ghetto uprising.			
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	15	9 th May 1945 – Germany surrendered to the USSR.			

History - Year 9 Knowledge Organiser Term 4

How and why was the Holocaust possible?

Topic

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

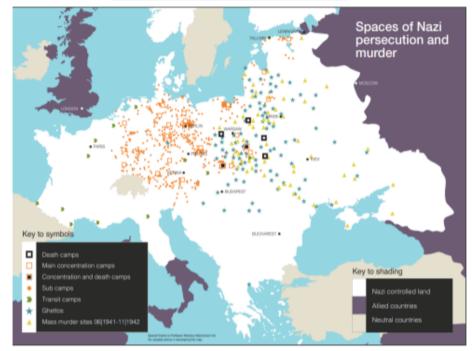
Historical Skills

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

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

Key Terms

Spaces of Nazi persecution and murder



Substitution

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

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

1. $4b = 4 \times 2 = 8$

Note – Always use the correct order of operations

2.
$$7b-3c=(7\times3)-(3\times-5)=21--15=21+15=36$$

3.
$$5b^2 + 1 = 5 \times (3)^2 + 1 = 5 \times 9 + 1 = 45 + 1 = 46$$

4.
$$2c^3 = 2 \times (-5)^3 = 2 \times -125 = -250$$

5.
$$\frac{3ac}{2b} = \frac{3 \times 2 \times -5}{2 \times 3} = \frac{-30}{6} = -5$$

For fractions work out the numerator and denominator separately first

Inequalities show the range of numbers that satisfy a rule.

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

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

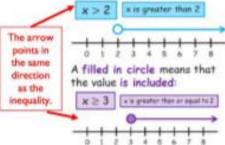
Check the symbols carefully, if they have the line underneath they include the end value.







An open circle means that the value is not included:

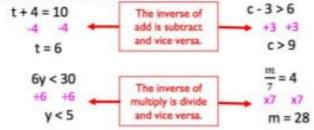


If x is between two values, use two circles:

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

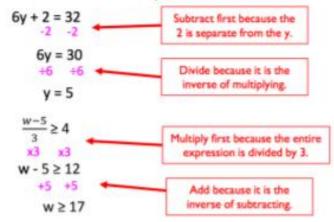
Solving one step equations/inequalities

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



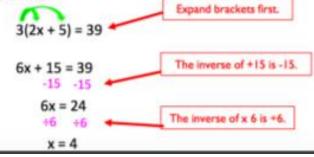
Solving two step equations/inequalities

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

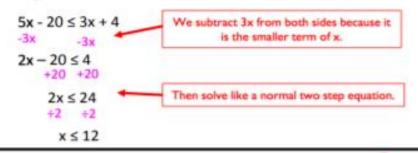


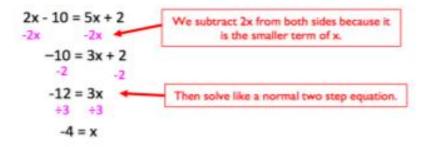
Solving equations with brackets

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



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



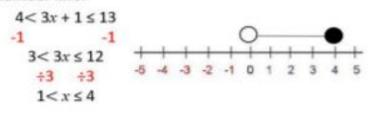


Top tip: Always subtract/add the smaller number of terms to avoid getting a negative term at the end.

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

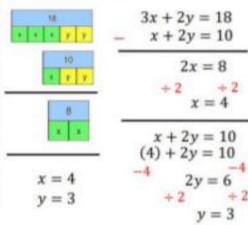
$$5x-6 \le 14$$
+6 +6
 $5x \le 20$
+5 +5
 $x \le 4$

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



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

Solve by subtraction



Solve by addition

3x + 2y = 16

Solve by adjusting one

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

12

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

Year 9- Film Music- Knowledge Organiser

K	ley Terms 1—Film Music	
Specially Composed Music	Some music is composed specially for a film. Much of this is broadly classical in style.	Bass C
Borrowed Music	Some music used in film soundtracks was composed for other purposes but is adopted for use in a film because it fits the film-maker's intentions.	Chord
Cue Sheet	A detailed listing of musical cues matching the visual action of a film so that composers can time their music accurately to match the visual images.	Discor
Diagetic	Music that is part of the action: the characters in the film can hear it.	\$300 0-CH-DH-
Non- Diagetic	Music that is not part of the action: the characters in the film cannot hear it. It is just for the audience.	Cresce
Leitmotif	A short melody that is associated with a character or idea in a film. E.g, James Bond has his own leitmotif.	Pitch
Sound- track	The word "soundtrack" can often mean a commercial recording of a collection of music and songs from a film sold individually as an audio CD.	Repea Marks
Theme Song	Sometimes a song, usually a pop song, is used as a theme song for a film. This helps with marketing and publicity	1
Under Score	Where music is played at the same time as the action or dialogue.	

Key	Terms 2-Music Theory
Bass Clef 9:	A musical symbol indicating to performers to perform the notes and a certain (low) pitch
Chord	A series of notes played together at the same time e.g. the James Bond Leitmotif
Concord	A chord where the notes sound 'comfortable' or 'happy' with each other e.g. chord of C major
Discord	A chord where the notes sound like they 'clash' together – often producing a 'tense' feel
Crescendo	Gradually getting louder
Pitch	Horror movie composers often us extremes of high and low pitch when creating musical soundtracks to create a feeling of 'tension' and 'suspense'
Repeat Marks	A musical symbol made up of two dots and two bar lines, telling the performer to go back to the beginning (or to the previous repeat marks) and repeat the music







John Williams Rachel Portman

Kathryn Bostic

Syncing/ Sync Point	A precise moment where the timing of the music needs to fit with the action.
Timecode	A time synchronisation tool that every film maker must use to make sure that the visuals, dia- logue and music are all in time.
MIDI (Musical Instrument Digital Interface)	MIDI connects devices that make and control sound — such as synthesizers, samplers, and computers — so that they can communicate with each other.
DAW (Digital Audio Workstation)	A comprehensive piece of soft- ware that allows your computer to record, edit, mix and pro- duce music. Ableton live is a popular DAW.

Usually measured in: cm



MUSCULAR STRENGTH

Grip dynamometer

Equipment: Grip dynamometer

Usually measured in: KgW



FLEXIBILITY

Sit and reach

Equipment: Sit and reach box

Usually measured in: cm



SPEED

35-metre sprint

Equipment: tape measure and stopwatch

Usually measured in: seconds (s)



PE Knowledge Organiser

FITNESS TESTING

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

BODY COMPOSITION

Body Mass Index (BMI)

Equipment: Scales and tape measure

Usually measured in: kg/m2

Bioelectrical Impedance Analysis (BIA)

Equipment: BIA analyser and a mat

Usually measured in: % body fat

Skinfold test

Equipment: Skinfold callipers

Usually measured in: % body fat



AEROBIC ENDURANCE

Multistage fitness test

Equipment: Bleep test CD, tape measure,

cones

Usually measured in: ml/kg/min

Forestry step test

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

Usually measured in: ml/kg/min

SPEED AND AGILITY

Illinois agility test

Equipment: cones, tape measure, stopwatch

Usually measured in: seconds (s)

MUSCULAR ENDRUANCE

One-minute sit-up test

Equipment: A mat and a stopwatch

Usually measured in: sit-ups per minute

One-minute press-up test

Equipment: A mat and a stopwatch

Usually measured in: press-ups per minute



Oneness of God

understand Allah

Believing anything is equal to Allah, Making

your own will before

Worldwide family of

One God, who has no

Muslims

egual

The Qu'ran

The Qu'ran is the holiest text in

It was given to Mohamad by the

Angel Gabriel over 23 years.

how to live their life.

Muslims believe that Allah has

given them a complete guide for

The Hadith

A collection of the sayings of the

Prophet Mohamed (pbuh)

Muslims believe it is the final

word of Allah (God) and is

everything is connected

to God, nobody can fully

decisions that should be

made by God, or putting

Islam

Prophet

Tawhid

Shirk

Ummah

Allah

perfect

What is Islam?

Islam - one who submits to the will of Allah Arabic name Peace, through for God submission to God Salam - Peace (peace within comes when people submit to the Messenger of Allah, for example, Mohamed was the final prophet.

followers of

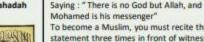
Muslims have 99 names for Allah, but their crucial belief is in the unity or oneness of Allah - this is known as TAWHID

Some examples of the 99 names of Allah: The Knower Most Gracious Most Merciful. The King The Holy One The Source of Peace The Keeper of Faith, The Guardian The Almighty,

The Sustainer,

Islam is the religion 5 Pillars of Islam means submission

Shahadah



To become a Muslim, you must recite this this statement three times in front of witnesses. You must believe and understand what you are saying.

2. Salat Praver

Muslims should pray five times a day. In Islamic countries a person will call people to pray from the Mosque. Muslims bow in prayer to show respect and submission to Allah.

3. Zakat

Muslims purify their money by giving 2.5% away (after essential bills. After essential bills) Muslims believe that everything we have has been loaned to us by Allah. It is one way to submit to Allah and support the Ummah.

4. Sawm

AL WAY

Muslims fast during the holy month of Ramadan, During daylight hours Muslims do not eat, drink, smoke, have sex or fight. Fasting 19 from food and drink teaches self discipline and empathy for the poor.

5. Hajj

If they can, Muslims try to go to Mecca once in their lifetime. Everyone wears white to show that they are equal

The life of Prophet Mohamed (pbuh)

Mohamed (pbuh) was born in Mecca in 570CE. His father died before he was born. His mother died when he was 6.

When he grew up he became a trader, People said he was honest in

He married his employer, a rich and independent woman called Khadijah. Mohamed's family believed in one God, but this was unusual at the time.

One night, Mohamed was in a cave praying when he heard the words of Allah, spoken by the angel Jibril (Gabriel), Mohamed (pbuh) had never been taught to read or write, but he told others the exact words that Allah had said. These words were written down: This became the

Mohammed began to preach to the people. He said "stop worshipping all these statues. There is only one God." But the people of Mecca would not listen to him. They tried to kill him, so when he was invited to, he journeyed to a city called Medina, this is called the hijra.

In Medina, Mohammed (pbuh) was welcomed and he had the first mosque built so that people could go there to worship Allah. He became the leader of the new community: The Ummah.

Mohammed (pbuh) died when he was 63. He was buried in Medina and a mosque was later built around his tomb.

6 Articles of Faith (pillars of Iman)

1. Belief in Allah as the one and only God (Tahwid)

and he is the creator of all things. pure monotheism.

everything is connected to Allah, nothing is secular.

daughter. Allah has no equal, because of this He should be worshipped and

2. Belief in Angels (Al-Malaa'ika) Angels were created from light, before humans were even created, for the purpose of worshipping Allah.

whatever Allah tells them to do. They pray and worship and Glorify Allah, some carry the throne of Allah, some help Muslims in times of need, others sit on our shoulders and write down all the good and bad deeds that we may

3. Belief in the holy books (Al Kitub)

This is the belief in the Holy books of Islam that have been sent by Allah to

3 of them have been translated or added to, so they are not completely Allah's Message anymore. They are the Torah, The Gospels and the

The only book left perfectly is the Qur'an, because it is the last message. Allah will send to us. In it Allah tells us that the Quran is the 'completion of our faith.

4. Belief in the Prophets (Risalah) Risalah means prophethood .

Allah has always been guiding people through His prophets, All the prophets and messengers came with the same message; to submit to Allah by obeying and worshiping Him.

Prophets include Adam, included Noah Abraham, Ishmael, Isaac, Lot, Jacob, Joseph, Moses, David and Jesus, and ended with Muhammad, the final prophet (peace be upon them all).

There are 25 prophets mentioned in the Quran, but there could be many more that were not mentioned.

5. Belief in the Day of Judgement (Akirgh)

Muslims believe we will all have to answer to Allah on the Day of Judgement, when we will be judged according to how we lived our lives. A person who obeys and worships Allah will be rewarded with a place of happiness in Paradise (Jannah): the person who does not will be sent to Hell (Jahannam) a place of punishment and suffering.

Allah is the 'most merciful' so he will forgive many sins on Judgement day

Belief in Predestination (Al Qodr)

Allah knows our destiny, Yet we have Free Will

Allah already knows everything that will happen in the end, including who will go to Heaven and Hell.

However we are also free to choose right and wrong.

Muslims believe this is because Allah is outside of time, so he can see all things at once.

The Growth of Islam

Stop having wars and feuds, and to settle our quarrels through the law.

People who live good lives.

will go to paradise. Those

who get rich by making

others suffer will go hell.

People with money should help the poor. "He is not a Muslim who eats his fill while his brother goes hungry"

Muhammad said all people are "equal like teeth on a comb" whatever their colour or background.

There is only

one God. Idols

should be

destroyed.

Mohamed taught that people must not

What the Prophet taught:

1.Act out of anger. 2. Hate, envy or provoke each other.

3. Spy on each other or betray each other's trust.

4. Drink alcohol or gamble.

5. Cheat each other.

6.Charge interest on money loaned to those

7. Pay bribes to get what is lawfully not yours. 8.Kill unwanted babies either before or after

9.Be cruel to animals.

Second largest religion Fastest growing religion It spread along the trade routes Many Muslim countries became rich from selling oil.

Sunni and Shia

The split occurred 1400 years ago. following the death of Mohamad in Medina. Muslims who wanted to select his successor, or Caliph, by following the traditional Arab custom (Sunna) formed into a group known as Sunnis. Others insisted the Prophet had selected his cousin and son-in-law Ali as the next leader. This group was called Shia Ali, or 'Party of Ali'.

Conflict in Islam

together. Iran is a Shi'te country and Irag is Sunni.

the war about this.

Islam's Contributions The Qur'an encourages

Muslims to seek knowledge. Muslims need to be smart to work out when to pray and how much tax to

- Public libraries
- Algebra
- Discovery of many stars
- Surgical tools
- Coffee Modern Chess
- Windmills
- Fountain pens
- Technique of inoculation





Eid-ul-Fitr

This festival comes at the end of Ramadan, Muslims give thanks to God for helping them to fast and giving them the Qur'an. It is a time of forgiveness. Muslims gather at the mosque to pray in the morning. They give presents to one another and enjoy festival food. They give to the poor so they can celebrate too.

Eld-Al-Fitt

Eid-ul-Adha

This festival comes at the end of the time of Hajj, it is the festival of sacrifice and recalls the story of Abraham. Muslims kills animals at this festival to show they are ready to give their lives to God. Meat is shared with friends, family and the poor.

Tawhid means there is only one God,

Believing in Tahwid means that

Allah is not born, and He has no son or

Angels are workers of Allah. They do

Islam would be a more powerful force if countries worked

> Iran wanted Shi'ites everywhere to fight for power but Iraq didn't want this. Hundreds and thousands died in

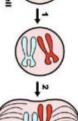
Some Muslim countries want an Islamic Government others don't.

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

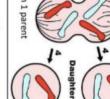
CPG Biology: pages 24-26. 32.

Mitosis (p24)

Type of cell division used for growth and repair







Produces 2 genetically identical da ghter cells from

cell

Interphase – cell makes extra sub-chromosome copies stay attached Prophase – nucleus breaks down a cellular parts. DNA replication

become visible chromosomes use spindle fibres to line up along the middle of the and spindle fibres appear. Chrom

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

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

IPMAT

Growth (p25) Measure growth using percentage change specialised cells Differentiation Stem Cells (p26) 0 00

Embryonic stem cells found in embryos can differentiate

2 4 -

- into any specialised cell
 Adult stem cells are limited in
 the type of cell they can
 differentiate into
- Plant stem cells called

measurements was from a large group into 100 equal section

percentile charts

shoots and roots and can differentiate into any cell eristem cells are found in

9

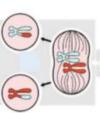
Meiosis (p32)

- Type of cell division to form gametes netes (sperm
- and egg cells)
 Produces 4 genetically
 different daughter cells from 1 parent cell es are

ied in the same way as

- Pairs of copied long the middle of the
- The pairs separate The chromosomes
- The copies within each ig the middle of the
- in this diagram 1 chromosome instead of 2) This leaves 4 haploid cells pair then separate alf of the original amber of chromosom



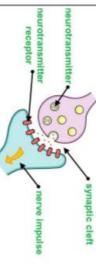




CPG Biology: pages 27-30.

EDEXCEL 9-1 Biology | Topic 2 -Reflexes (p29) An automatic resp onse to a stimulus Cells and Control | Required Knowledge

Synapses (p29) A synapse is a junction between two which electrical signals must pass. neurones across



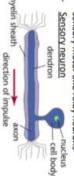
Neurotransmitter molecules diffuse from vesicles towards the neurotransmitter receptors, moving from an area of high concentration to low concentration.

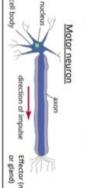
n't forget to try the revision ons for topics 1 & 2 on page 31!

Nervous System (p27)

- Central nervous system = brain and spinal cord

 Peripheral nervous system = all other neurons (nerve cells) around the body, including
- and relay





Brain (p29)

Cerebral hemispheres: largest part, centre of intelligence, memory, speech and consciousness. Left = right

Eye Structure (p30) Conjuntes - 169 -

Medulla oblongata: centre for controlling respiration, circulation and digestion

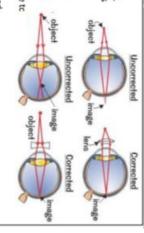
thought, emotions, reading writing and

Cerebellum: controls

CAT or PET Studied using

Eye Problems (p30)

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



EDEXCEL 9-1 Combined Science | Biology Topic 1 -

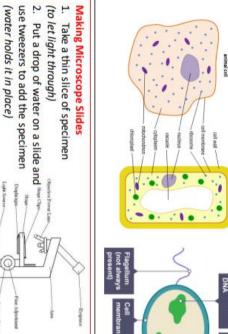
Key Concepts | Required Knowledge

CPG F & H tier: pages 11-14.

Cell Structure

Animal cell

Plant cell



-Bacterial cell Specialised cells Sperm Ciliated cell Egg cell

Magnification
- Equation

Magnification =

image size

1

actual size

Unit conversion

- Add a drop of stain
- (makes it easier to see) Use a mounted needed to lower a cover slip and press down
- firmly are no bubbles)
- Put the slide on the stage and secure using the clips

Light vs. Electron Microscopes

Choose the lowest powered objective lens Use the coarse focusing knob to move the while looking through the eyepiece the stage up and down

(to focus the image)

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

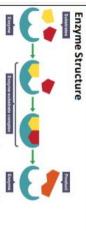
(this will allow you to estimate the size of the specimen)
10. Repeat focusing with higher-powered objective lens if needed

ines up to 2000s Specimens are a a plastic materi Magnifies over 500 000× ust be fixed in

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

CPG F & H tier:

pages 15-17

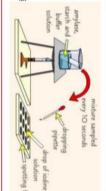


apart or joined together. Enzymes only work with substrate, they have a high specificity due to the shape of the active site. The substrate's shape has to match the active site's shape exactly. This is called the 'lock and key'

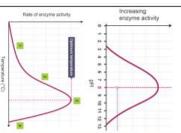
Enzymes speed up chemical reactions where thi apart or joined together. Enzymes only work wit

Investigating Enzymes

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



Factors affecting enzymes

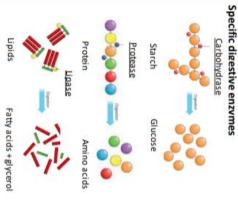


substrate) will move more quickly, there will be more collisions and more reactions.

After the optimum the heat causes the shape of the active site to change in the same As the enzyme experiences warmer conditions it (and the active site begins to change meaning the substrate can't fit as well and less reactions

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

Ethanol production



conditions away from the optimum the shape of the As the enzyme experiences

reverse = synthesis All of these digestive processes can happen in

Investigating Osmosis

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

final

Percentage itial mass

concentration inside and outside of the where the line The point Change in mass (%) These cylinders gained mass, water conc. was conc. was lower than in cylinders, water was drawn These cylinders higher than in drawnin

Active Transport ovement of particles across a membrane from high concentration to lower

Transport

Osmosis

Movement of particles concentration to low concentration carbon dioxide from high

Diffusion

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

concentration, using energy nsferred during respiration on nitrates into plant roots



9.11 My school – vocab. list

What is your school

uniforme like?

I wear..

Blazer

Jumper

T-shirt

Shirt

Tie

Skirt

Socks

Shoes

Tights

Ugly

Pretty

Cheap

Expensive

Fashionable

Trousers

¿Cuál es tu asignatura What is your favourite favorita? subject? El inglés English El español Spanish El francés French El teatro Drama El dibujo Art El deporte PE Computer Science La informática La música Music La tecnología Technology La geografía Geography La historía History La religion RE La educación personal y social PSHE Las matemáticas Maths Las ciencias Science Las humanidades Humanities

¿Qué Piensas? What do you think?

Es Interesante Práctico Útil Ínutil Fácil Difícil Aburrido Emocionante Creativo

Importante

Demasiado

bastante

Muy

It is Interesting Practical Useful Useless Easy Difficult Boring Exciting Creative Important Too Very Quite

¿Cómo es tu uniforme escolar?

Llevo... Una chaqueta Un jersey Una camisa Una camiseta Una corbata Una falda Unos calcetines Unos pantalones Unos zapatos Unas medias

Feo Bonito (in)cómodo Caro Barato De moda Pasado de moda

La jornada escolar

Las clases empiezan...

Las clases terminan...

La hora de comer

Por la mañana

Por la tarde

Salgo de casa

Voy al insti

Dura...

El recreo

The school day

Unfashionable

(un) comfortable

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

¿ Cuáles son las reglas?

(no) se debe (no) se puede Hay que Está prohibido Escuchar en clase Usar el móvil en clase Llevar joyas Llevar maquillaje Llevar zapatillas de deporte Dañar las instalaciones Respetar el turno de palabra Comer chicle Hacer los deberes

What are the rules? You must(n't) You can('t) You have to It is forbidden To listen in class To use your phone in class To wear jewellery To wear make up To wear trainers To damage the facilities To wait your turn to speak

To chew gum

To do homework

¿Que quieres hacer en el What do you want to do in the future? Aprobar mis exámenes To pass my exams To get good grades To do an apprenticeship To look for a job To work as a volunteer To travel the world To have children Casarme To get married Aprender a conducir

Doctor Teacher Lawyer Mechanic Plumber Firefighter Vet Hairdresser

futuro?

Sacar buenas notas Hacer un aprendizaje Buscar trabajo Trabajar como voluntario Viajar por el mundo Tener hijos

Médico/a Profesor(a) Abogado/a Mecánico Fontanero Bombero Veterinario Peluguero

To learn how to drive

Spanish

9.11 My school Knowledge Organiser

School – Subjects, uniform and time Future plans & jobs

The present tense	AR verb	ER verb	IR verb
yo (I)	-0	-0	-o
tu (you)	-as	-es	-es
él/ella (he/she)	-a	-е	-е
nosotros/as (we)	-amos	-emos	-imos
vosotros/as (you all)	-áis	-éis	- ís
ellos/ellas (they)	-an	-en	-en

The future tense in Spanish

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

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

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

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

Quiero = I want

Me gustaría = I would like

Quisiera = I would like

Espero = I hope

Adjectives describe nouns e.g. a black blazer.

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

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

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

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

Comparatives – to express more or less than

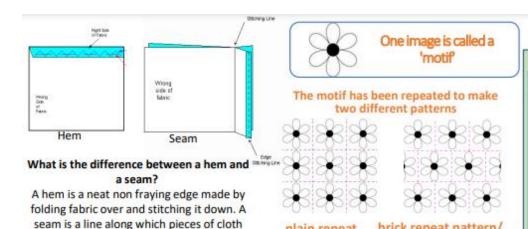
- ... es más...adjective...que is more...adjective...than
- ... es menos ...adjectiveque is less...adjective... than
- ... es tan...adjective....como is as...adjective...as

For example:

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

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

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



are joined by sewing.

plain repeat

die jonied by Jennig.	pattern offset repeat pattern
Equipment	Use
Bobbin	A bobbin is a cylinder, to which cotton thread is wrapped around. It is found in the bottom part of a sewing machine.
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
Quick unpick	It is used to quickly remove stitches and seams.
Tailor's chalk	Used to mark on to fabric. It is easily washed off.
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

Year 9 Textiles Knowledge Organiser **About Designers** Orla Kiely Orla Kiely is known for her print designs inspired by her early childhood - the colours of the countryside and her home. Kiely's design work lends itself to CAD for its repetitive style. Her original work was hand painted using gouache paint. 'Stem' is her most iconic print which consists of simple graphic strength - clean, measured and bold. Kiely believes her work is never finished and can be reworked several times until she is satisfied with the end result.

Laura Ashley

brick repeat pattern/

Print has been at the forefront of the Laura Ashley brand since it was first established when Laura Ashley started printing her own designs for head scarves.

She went on to design dresses for social wear at the end of the 1960s. Her popular long Victorian-inspired dresses became known as the 'Laura Ashley look'.

The business expanded into coordinated ranges of furnishing fabrics using natural materials such as cotton and recycled paper for wallpaper.



Tier 3 'Academic' keywords.	Plain seam analyse sustainable embellishment Woven/ bonded/ knitted Free machine function embroidery develop
Tier 2 Valuable keywords used in most lessons every lesson.	Complementary colours contrast environment fastening compare embroidery equipment iron context appliqué effect improve
Tier 1 Basic keywords used in almost every lesson.	colour design shape machine pattern line tone thread Fabric sew

Textiles Hierarchy of Key words

Questions and activities – hints and tips

Summarising a lesson:

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

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

Revision:

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

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

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

Knowledge quizzes:

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

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

Go over the questions you keep getting wrong.

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

Keyword Development:

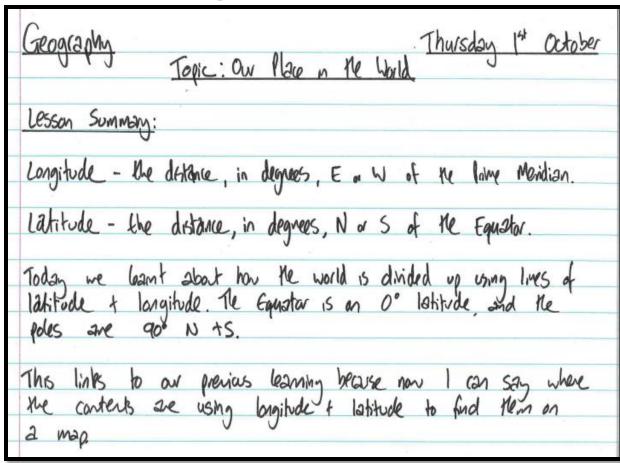
Practise the spellings of key words. Use the look-cover-write-check method to help you.

Can you explain what the key words mean?

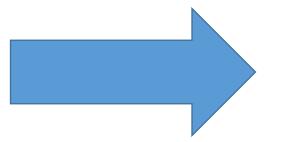
Can you link the key words together?

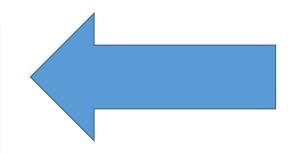
Copy out the key words with their definitions.

What might it look like?



Knowledge Quiz:

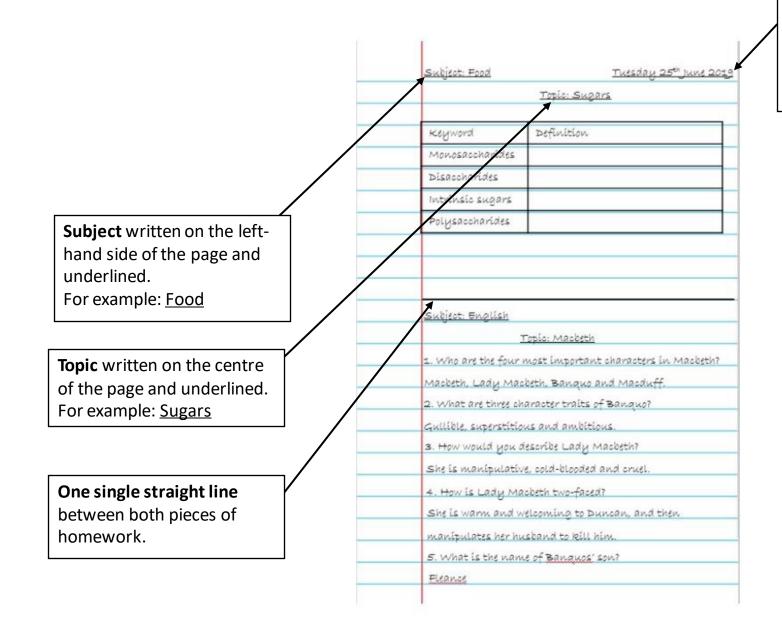




Lesson summary:

	Science Topic: Cells Monday 28th September
	Enalledge Olizi
1.)	what is the name of the part of the microscope when the specimen is pleased? A = Stage
2.)	How many cells are there in a "unicellular" organism? A = one
3.)	what does the 'cell membrane' do?. A = controls movement of substances in t out of the cell
4.)	where does photosynthese take place in a cell? A = Chloroplast
<i>J.</i>)	Mat is the function of the red blood cells? A= to carry oxygen

How to present your homework:



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

Notes