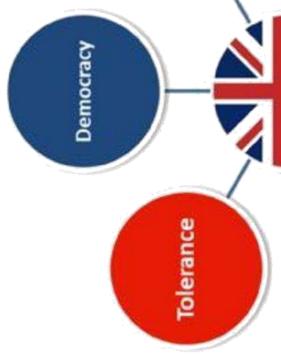
Year 9 Knowledge Organiser Summer Term 2021/22

Name: Form:



Core British Values

- unacceptable to dismiss the peliefs and opinions of I recognise that it is anyone.
- I understand that discussions about sensitive issues will be controlled and structured.
- I can influence the way the school runs through the school council and by talking to staff.
- I can influence my lessons through putting my hand up and responding.



I am free to think as I see fit.

Liberty

accountable for all my actions. I have the freedom to make choices that affect me but I recognise that I am

to promote and protect the

wellbeing of others.

We all have a responsibility

I take responsibility for all of

my actions - good or bad.

responsible for my learning

as my teacher.

I recognise that I am as

Responsibility

Respect

- long as it does not promote I recognise that everyone is entitled to their opinion as extremism.
- I understand that everyone is entitled to a voice within the classroom.
- would like to be listened to. I will listen to others as I

- I understand that the school rules are used to mirror society laws and must be respected.
- I recognise that there will be consequences for my



Social - Moral - Spiritual - Cultural



Contents Page

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5	How to make the most of your Knowledge Organiser
6-9	Learning Strategies
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12-13	Reading log
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16–17	Citizenship
18–19	Computing
20-21	Dance
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32 – 33	Geography
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38 – 39	History
40 – 41	Mathematics
42 – 43	Music
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46-49	Religious Studies
50 – 51	Science – Biology
52 – 53	Science – Chemistry
54 – 55	Science – Physics
56 – 57	Spanish
58 – 63	Technology

Instructions for using your Knowledge Organiser

Every school day, you should study 1 to 2 subjects from your knowledge organiser for homework lasting at least 1 hour in total.

On pages 6 and 7 there is space for you to record the subjects you have studied to make sure you are giving equal time to all of them. Your parent should sign off your homework each evening on these pages.

Your parent should also sign your reading log on pages 8 and 9.

You can use the note pages in this booklet to help with your studies.

You need to bring your Knowledge Organiser to school every day. It will be checked regularly during form time.

You will be regularly tested on knowledge contained in this booklet in your lessons and through quizzes on Show My Homework.

Self-testing

You can use your Knowledge Organiser in a number of different ways but you should not just copy from the organiser. Use the following tips and guidance to help you get the most out of learning and revising your subject knowledge.

These are some possible tasks you could try:

- Ask someone to write questions for you
- Write your own challenging questions, leave them overnight and try answering them the next day
- Create mind maps
- Create flash cards
- Put the key words into new sentences
- Look, write, cover and check
- Write a mnemonic

- Use the 'clock' template to divide the information into smaller sections
- · Give yourself a spelling test
- Give yourself a definition test
- Draw images and annotate/label them with extra information
- Do further research on the topic
- · Create fact files
- Create flowcharts
- Draw diagrams

How to make the most of your knowledge organiser

Questions/Answers, Answers/Questions

Ask a parent, carer, study partner to write you questions (or answers) and then you write the answer (or possible question that would respond to that answer). You can also write your own questions but if you do this leave it until the next day before you answer them to see what you can remember after a break.

Always remember to check and correct

<u>Flashcards</u>

These are a very good and simple self-testing tool.

To make your own, take some card and cut into rectangles roughly 10cm x 6cm.

Write the key word on one side and the definition on the other.

Then go through your cards looking at one side and seeing if you can remember the keyword/definition on the other side.

The Learning Scientists

As a trust, we have always been keen to find out more about how we learn and how we can support our students in their learning.

The Learning Scientists are a group of cognitive psychological scientists interested in research on education. Their main research focus is on the science of learning. (Hence, "The Learning Scientists"!)

Through decades of research, they have identified and developed six key learning strategies, which are explained over the next few pages. These are the main strategies we encourage our students to apply to their studies.

Please visit the Learning Scientists' website for more useful information, including blogs for parents to help support their children with their learning.

https://www.learningscientists.org/

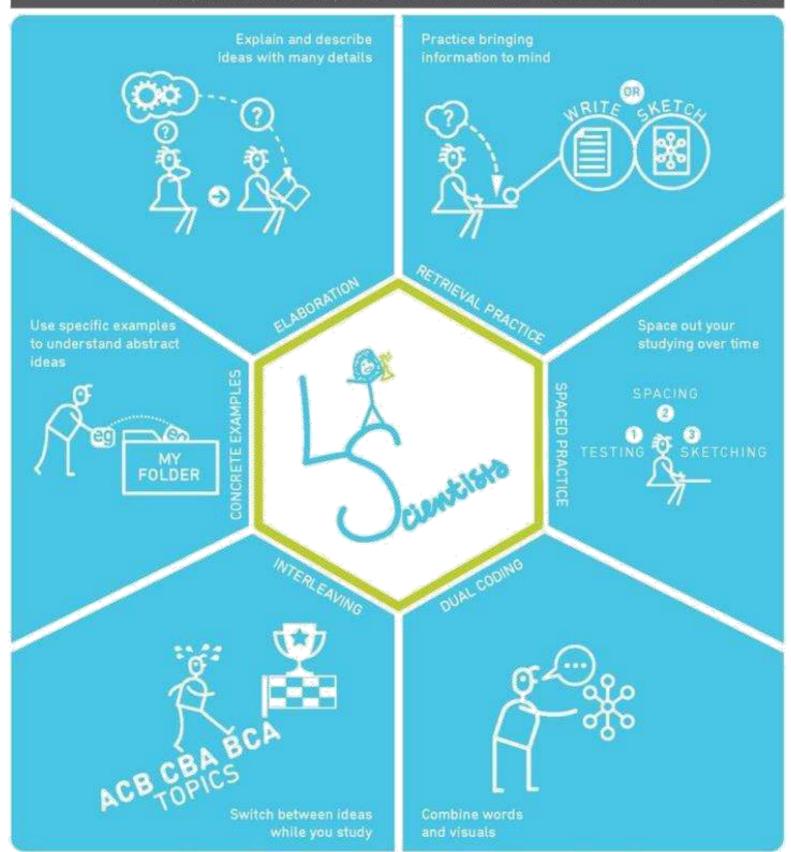


Six Strategies for Effective Learning

LEARNINGSCIENTISTS ORG

All of these strategies have supporting evidence from cognitive psychology. For each strategy, we explain how to do it, some points to consider, and where to find more information.







HOW TO DO IT

Start planning early for exams, and set aside a little bit of time every day. Five hours spread out over two weeks is better than the same five hours all at once.

Review information from each class, but not immediately after class.

After you review information from the most recent class. make sure to go back and study important older information to keep it



TRY IT NOW

Think of a topic you read about a few chapters back. What were the main ideas?



Put away your class materials, and write or sketch everything you know. Be as thorough as possible. Then, check your class materials for accuracy and important points you missed.

Take as many practice tests as you can get your hands on. If you don't have ready-made tests, try making your own and trading with a friend who has done the same.

You can also make flashcards. Just make sure you practice recalling the information on them, and go beyond definitions by thinking of links between ideas.



can from memory.





HOW TO DO IT

Ask yourself questions while you are studying about how things work and why, and then find the answers in your class materials and discuss them with your classmates.

As you elaborate, make connections between different ideas to explain how they work together. Take two ideas and think of ways they are similar and different

Describe how the ideas you are studying apply to your own experiences or memories. As you go through your day, make connections to the ideas you are learning in class.



EXPLAIN AND DESCRIBE IDEAS WITH DETAILS



TRY IT NOW

Close the book and think about how what you just read connects to something you already know.

learningscientists.org



HOW TO DO IT

Switch between ideas during a study session. Don't study one idea for too long.

Go back over the ideas again in different orders to strengthen your understanding.

Make links between different ideas as you switch between them.



OK, you've read enough about this topic. Why don't you try to answer some questions about a different topic for a bit?



USE SPECIFIC EXAMPLES TO UNDERSTAND ABSTRACT IDEAS



HOW TO DO IT

Collect examples your teacher has used, and look in your class materials for as many examples as you can find.

Make the link between the idea you are studying and each example, so that you understand how the example applies to the idea.

Share examples with friends, and explain them to each other for added benefits.



Concrete Examples

USE SPECIFIC EXAMPLES TO UNDERSTAND ABSTRACT IDEAS



TRY IT NOW

Look around you: Can you find an example related to the idea you were just reading about?

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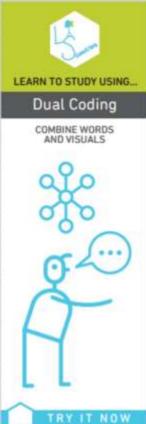


HOW TO DO IT

Look at your class materials and find visuals. Look over the visuals and compare to the words.

Look at visuals, and explain in your own words what they mean.

Take information that you are trying to learn, and draw visuals to go along with it.



Now that you have read a bit, close the book and draw a visual that incorporates the main ideas.

learningscientists.org

Homework log and parental check

Week 1	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 2	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 3	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 4	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 5	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 6	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 7	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			

Homework log and parental check

Week 8	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 9	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 10	Subject 1	Subject 2	Signed
Monday			-
Tuesday			
Wednesday			
Thursday			
Friday			
Week 11	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 12	Subject 1	Subject 2	Signed
Monday			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 13	Subject 1	Subject 2	Signed
Monday	į		•
Tuesday			
Wednesday			
Thursday			
Friday			
Week 14	Subject 1	Subject 2	Signed
Monday		,	J
Tuesday			
Wednesday			
Thursday			
Friday			

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Week	Mon	Tue	Wed	Thu	Fri	Sat	Sun	Book(s) read (title and author)	Total time spent reading	Parent/Guardian /Staff signature
									50	
2					2.		÷.		2	
æ	2								50	
4	2								0	
5			· 3						ω	
9	2		50				8		4	
7							88			

Reading log

Use this reading log to record the books you read along with how long you have spent reading and the Accelerated Reader quizzes you have completed.

Week	Mon	Tue	Wed	Thu	F	Sat	Sun	Book(s) read (title and author)	Total time spent reading	Parent/Guardian /Staff signature
00			×		%		N.			2
6	40	v.e			8		XI-			2
01.	*	v.					8		*	2
11	**	y.			9		8		*	
12	*	v			9		8:		*	2
13		2			%					2
14		u.	w.		%		St.			2

Art – Independent Project:

	Art Specific Language and Terms	e and Terms	
Development of ideas	Ideas are the underlying theme (concept) behind your work and normally come from a given starting point. Your idea helps you to create a journey for your project that changes gradually as your project progresses. The idea helps you focus your work and give direction.	Presentation	Carefully considering the most appropriate and creative ways to present your work and research. Backgrounds should compliment the work to be placed on them.
Brainstorm	Taking a starting point and writing as many words/ideas that link to that theme as possible. This helps to generate a unique theme and idea for your own work.	Annotation	Evaluative writing that supports your own work. This annotation shows understanding of the media techniques used, the success of the work produced and explains the idea behind the work.
Artist Reference	Making relevant contextual links to Art, Artists or Cultures whose work may inspire or influence your own ideas and imagery.	Quality of imagery	Quality imagery refers to not just how clear the image is but how creative the image is and how relevant it is to your work.
Media Experimentation	Using a variety of different Art skills and techniques throughout your work. This enables you to demonstrate your ability to decide which art technique is most appropriate for your chosen work and ideas.	Development of own work	Your own work is Art that you develop through experimentation and not work copied from others and is one of the most important elements at GCSE.
Secondary Source Imagery	Using the work or imagery of others to help inspire and influence your own ideas and work.	Primary Source Imagery	Working from real life or photographic imagery taken by yourself.

Concepts are defined as abstract ideas or general notions that occur in the mind, in speech, or in thought. They are understood to be the fundamental building blocks of thoughts and beliefs. They play an important role in all aspects of art.



lan Francis 'Revolving Cage' Mixed media on birch panel 2016



Marcelo Jácome 'Planos-pipas' Tissue paper, bamboo, fiberglass and cotton thread 2013



Adrian Samson 'Beggar' Metallic C-Print 2015

Art - Independent Project - Painting:

	Art Specific Language and Terms	age and Terms	
Scaling Up	A technique to help enlarge an image accurately. A grid is drawn over the image to be copied and also onto the paper (both to scale). The image is then copied in sections.	Colour Blending	The change from one colour to another gradually. The colour change should appear smooth and is achieved when the two colours are mixed and layered smoothly without an obvious step or line.
Observation	Looking closely at the original image/source so that all detail and colour changes are seen and replicated.	Layering	Applying the colour in stages, starting with lighter base colours and adding darker tones later over the top. Often there can be multiple layers to a painting.

Acrylic Paint: Acrylic paint is a fast-drying paint made of pigment suspended in acrylic polymer emulsion. It is water-based and a fast drying paint which is easy to mix and blend. The paint can be thinned with water.

Paintbrush choice:

Flat brushes are versatile.
Their long bristles can lay smooth patches of color, make long, bold strokes or when using their edges, execute fine crisp lines. Marks made with a flat brush have a distinctive

Round brushes come in pointed and blunt tips. Both can be used to create a linear mark by applying more or less pressure during the stroke; the pointed round brush is ideal for fine detail.

Contemporary Painters:



square edge.

Chloe Early - Eggwhite



Ant Carver



Takashi Murakami - Panda Gold

Y9 CITIZENSHIP KNOWLEDGE ORGANISER

awareness of a cause or issue by acting as a representative. Action taken to try and raise

Advocate

A person who acts on behalf of others as a representative.

Boycott

Refusing to buy goods or use desired political outcome. a service to achieve a

Unionist

A person in favour of the union between Northern reland and Great Britain.

Nationalist

Northern Ireland should be A person who believes that independent from Great Britain. The ability to influence through the power of your culture, political and foreign policy values.

Hard power vs. Soft power

economic power to achieve aims. he ability to use military or

International Resolving Dispute

involves working with others in alliances, for example UN armed forces. Usually

Use of force

Humanitarian Aid

Military action using the nternational Criminal Court (ICC) Non-military aid given to countries and people in need: for example, food, shelter or medical help.

prosecute and bring to trial individuals owards the international community against humanity and war crimes. established in 2002 to investigate, This is a permanent, international This could be genocide, crimes accused of committing crimes criminal court. The ICC was

Mediation

Human rights are the basic rights

HUMAN RIGHTS

every person in the world, from and freedoms that belong to

birth until death.

Summer Term

A process of involving outsiders in a dialogue to try between two parties. to resolve a dispute

Sanctions

Here are some examples...

country against others to achieve a change in policy Measures taken by a or action.

Boycott

use a service to achieve a Refusing to buy goods or desired political outcome,



Rights Articles have UK law - they form Rights Act 1998. been written into These Human the Human



C Education

fou have the right to education

established in 1948 by the United Nations. Rights articles in total. They were





Equality Before the Law

be treated by the law You have the right to in the same way as everyone else

Innocent until Proven Guilty

be considered innocent You have the right to until proven guilty.

O Freedom of

Opinion

You have the right to freedom of opinion and expression.



How can you link different topics together? Making connections

Human Rights + equality + legislation UK + Commonwealth

International community + human rights + United Nations Humanitarian aid + human rights Boycott + advocate

79 CITIZENSHIP KNOWLEDGE ORGANISER

Summer Term

The UK and the Wider World







Only organisation dealing with global trading rules between nations.



European organisation who seek to encourage trade, free movement and cooperation between its 27 European member states.

Intergovernmental military defence alliance. The organisation provides a system of defence, if a member country is attacked, the other members come to its defence. North Atlantic Treaty Organisation (NATO)

193 members belong to this international organisation. It seeks to maintain nations, sovie international problems and promoting respect for human international peace and security, develop friendly relations between

United Nations (UN)

Represents 30% of the the world's population, all members must agree the

values set out in its own Charter. It's a voluntary organisation and its

charter highlights issues related to democracy, human rights and law. The

head of this organisation is the Queen.





democracy, rule of law and human rights to their 47 member states. Intergovernmental human rights organisation, who aim to promote Council of Europe



voted to leave the European Union. The year the UK This is the proportion of the world 30% United Nations was This it the year 1945 formed.

193

Numbers! Relevant

2016

countries belong to This is how many United Nations.

human beings are

entitled to.

Commonwealth country. population who live in a

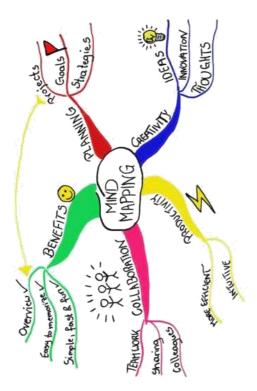
Human Rights all

The number of

Computer Science – Integrated Project Knowledge Organiser

9.5 and 9.6: Integrated Project covering: Mind maps, Gantt charts, system life cycles, Spreadsheets - Financial Models

Keyword	Definition
Mind Map	A mind map is a graphical way to represent ideas and concepts. It is a
	visual thinking tool that helps structuring information, helping you to
	better analyse, recall and generate new ideas.



Gantt Chart

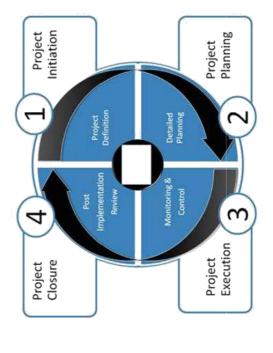
The state of the s	Q1 2019			Q2 2019		Q3 2019
lask Name	Jan 19	Feb 19	Feb 19 Mar 19 Apr 19	Apr 19	Jun 19	91 Inc
Planning						
Research						
Design						
Implementation						
Follow up						

Keyword	Definition
Gantt Chart	A Gantt chart is a visual view of tasks scheduled
	used for planning projects of all sizes and they an
	what work is scheduled to be done on a specific

over time. Gantt charts are

re a useful way of showing

day.



Keyword	Definition
Project Life Cycle	The project life cycle is a series of stages that are worked through during
	the development of a new information system.

Computer Science – Integrated Project Knowledge Organiser

9.5 and 9.6: Integrated Project covering: Mind maps, Gantt charts, system life cycles, Spreadsheets - Financial Models

	Keywords	Definition
	Project	A project is a series of tasks that need to be completed in order to reach a specific outcome.
	Data Analysis	Data analysis is a method in which data is collected and organised so that one can derive helpful information
	Data Collection	Data collection is a means for gathering facts, statistics and details from different sources.
	Target Audience	A particular group at which a product such as a film or advertisement is aimed
19	Financial Models	A financial model is simply a tool that's built in Excel to forecast a business' financial performance into the future
	Planning	Planning is the process of thinking about the activities required to achieve a desired goal. It is the first and foremost activity to achieve desired results.
	Implementation	Implementation is the process of putting a decision or plan into effect; execution.
	Execution	Execution is the carrying out of a plan, order, or course of action.
	Design	Design is the process of imagining and planning the creation of a systems. It is about creating solutions for people.





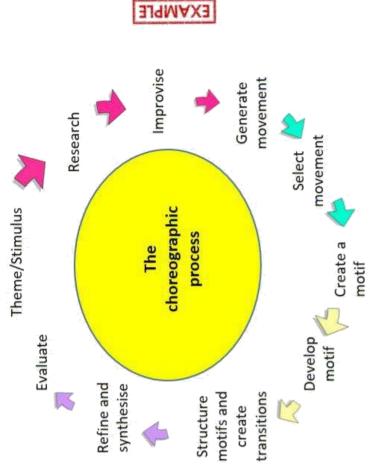








Year 9 Dance Knowledge Organiser: Choreography Part 2















A Motif

A movement phrase encapsulating an idea that is repeated and developed throughout the dance.

forwards and the fingers reaching up to the sky. The dynamic is steady and slow. forwards, remaining straight, to shoulder height, creating a horizontal line. The right arm continues to travel upwards, remaining straight, until it is in a vertical position with the elbow next to the ear. The hand is open with the palm facing A dancer is kneeling on the floor, centre stage, facing front, with both arms down by the side of the body, looking straight ahead. The right arm rises

Choreographic Devices

Motif and development - Ways in which a movement phrase can be varied. Repetition - Performing the same action or phrase again.

Contrast - Movements or shapes that have nothing in common.

Highlights - Important moments of a dance.

Climax - The most significant moment of the dance.

Manipulation of number - How the number of dancers in a group is used.

Unison - Two or more dancers performing the same movement at the same

Canon - When the same movements overlap in time.

Ways in which a movement phrase can be varied Motif and Development

Actions: Fragmentation - Re-ordering parts of the motif, Retrograde -Reverse Motifs can be varied by using movement components. For example: movements, Addition – to add in a movement.

Space: Change the pathways, levels, movement size or directions. E.g. a small jump into a large jump.

Dynamics: change the dynamics. E.g.. From soft to sharp

Relationships: change one relationship to another. E.g. leading and following into mirroring

Year 9 Dance Knowledge Organiser: Choreography Part 2

If this is your motif, how could you develop it in three different ways?

forwards, remaining straight, to shoulder height, creating a horizontal line. The vertical position with the elbow next to the ear. The hand is open with the palm facing forwards and the fingers reaching up to the sky. The dynamic is steady A dancer is kneeling on the floor, centre stage, facing front, with both arms down by the side of the body, looking straight ahead. The right arm rises right arm continues to travel upwards, remaining straight, until it is in a







Make it clear how the phrase is now State the choreographic device Clearly apply it developed

EXAMPLE

upwards steady and slow the dancer would perform it quickly and sharply. I would use change of dynamics. For example instead of rising the arm

I would use change of level so instead of the dancer starting on the floor, they would start by standing up.

next to the ear and then lower down straight and horizontally until it ends by I would use retrograde so that instead of the right arm starting down by the side the right arm would start above the dancer's head in a vertical position the dancer's side.

Communication of Intent

The aim of the dance: what the choreographer aims to communicate

Idea Meaning Mood

Style/style fusion

The ways in which a dance is made, built, ordered or organised. Structure

AB	ABA	ABC	ABCD	ABCBA	ABACADA
Binary	Ternary	Narrative	Episodic	Arch	Rondo



Drama – Theatre Creation

You MUST make sure all aspects of your performance fit your chosen practitioner or genre....



Theatre Crea	Vocabulary Explanation	The starting point, idea or inspiration for your devised drama. It is the thing you base your drama around.	itic Dramatic devices are rehearsal techniques that help you to see create your piece of theatre and work.	Plot refers to the storyline of the text. The plot is the sequence of events in the story or drama.		given. Plays should build to a climax or anti-climax.		informs his or her practical work.	A type of theatre – for example, physical, mask, T.I.E
- 10	Vocal	Stimuli Dramatic devices		Plot	Climax		Practitioner		Genre
Key to Characterisation	You need make cure that you.	You need make sure that you: • Speak clearly • Emphasise words in the right place • Use pauses • Think about the pace you speak • Can be heard		How you move can define a character. Think about why and how you move on	the stage. What is your purpose?	These need to be clear and strong- is your body language and facial	expressions telling the correct story? Do they match?	Are were standing at the cight distance	away from another character?
x	Voice		Movement		Body	and Facial Expressions	Drovemire		



Birdie - A tiny lantern good for up lighting facial features and distorting them; creating an eerie atmosphere



which moves across the stage, changes colour and can project Moving Head Light - A light mages using gobos Websites / Literature / Media

> Commedia Dell'Arte Greek theatre Stanislavski Kneehigh Kneehigh Theatre in education · Melodrama - Absurdism Musical Physical theatre Pantomime Naturalism - Surrealism Gothic

A Beginner's Guide to Devising Theatre By Jess Thorpe & Tashi Gore The Frantic Assembly Book of Devising Theatre By Scott Graham https://www.theguardian.com/culture-professionalshttps://www.youtube.com/watch?v=2FWAUncAvv4 **BBC Bite Size**

network/2014/dec/16/devised-theatre-ten-tips-collaboration

Frantic assembly

Artaud Gecko Brecht

Practitioners



Drama – Analysing Theatre

When analysing theatre you will be asked to look at in one of two ways Either - a) Practically. What the actor is doing Movement/Voice/Gesture... Or - b) Performance support- Set/ Props/ Sound/ Lighting/ Costume...



Evaluative Vocabulary

Conveys – gets across a message / idea / theory Demonstrates – Provides a clear explanation /

example

Emphasises – draws attention to something Evidences – provides evidence/proof for an

Evidences – provides evidence/proof for an argument / theory
Evokes – brings about a strong feeling or idea
Foreshadows – nints at subsequent events / themes

Illustrates – creates a distinct image

Highlights - draws clear attention by making it stand

Implies - suggests something beyond the obvious indicates - acts as a clear pointer or a signpost

someone in a certain way

Presents -- Infroduces an idea

Projects - takes an idea and makes it more distinct Represents - takes an idea and puls it forward in a Reveals – makes a meaning / interpretation clear that was previously unclear

Signifies - uses a word or a sign to make the

Symbolises – takes a visual image and uses it for a deeper meaning

or not

Key Vocabulary	Explanations
Adaptation	After a script to make it suitable for the stage, TV or film. It may include changing the use of language or setting
Characterisation	Creating a character, through the use of voice and movement
Tone	The thought or feeling behind spoken words
Pitch	The note used when speaking
Physical theatre	Physical theatre is communicating a story or meaning through movement
Prop	Items held or used by actors onstage
Analyse	Breaking things down in detail in order to understand them (cause and effect)
Evaluate	Determining if something is effective

Plich Tone Pace Tempo	Pace Body language Intensity	Facial expression Body language	Pace Tempo	Diegetic Non-diegetic Symbolism	Gobo Geis Intensity Symbolism	ne Garment Colour	Period
Voice	Movement	Gesture	Climax	Sound	Lighting	Costume	
	1	No.					-,

Year 9, Summer Term: Advanced Application of Concepts Core Text: The Adventure of the Speckled Band (Arthur Conan Doyle)



you have learned about over the past three years together. We will be studying a For the final half term of Year 9, we are going to bring all the key concepts which writers construct their characters. Additionally, you will consistently consider the writer's methods and the reader's response. The knowledge and skills you revisit longing to the genre of detective fiction. You will revisit how stories are shaped story about Sherlock Holmes by Sir Arthur Conan Doyle: a 19th century text beby context; how specific genres are defined by a set of conventions; and how this term will be excellent preparation for your GCSE English studies.

Key Vocabulary

- Victorian era
- detective fiction
- mystery
- archetype/archetypal
- detective
- villain
- conventions

- resp
- writer
- reader argument
- structure
- reference
- evaluation

Threshold Concepts (everything so far)

- 1. Story and Context
- 2. Characterisation
- 3. Genre and Theme
- 4. Perspective
- J. Knetoric
- 6. Symbolism
 7. Representation
- **⊘**



Reading Assessment:

'In *The Adventure of the Speckled Band*, Conan Doyle provides the reader with an engaging mystery.' How far do you agree with this statement? Support your ideas with detailed reference to the text.

The Essay-Writing Process

Examples of questions to ask yourself before you respond to the main question:

Why does there need to be a mystery?"

'What helps to engage the reader?'

'How effective is that method?'

How might we disprove this statement?"

'What does not work very effectively?'

'Why has Conan Doyle chosen this method?'

You should plan your response, which should include a thesis statement and examples from

Writing/Speaking and Listening Assessment

Writing Assessment:

A speech on a chosen topic (to be delivered for the spoken language endorsement).

Speaking and Listening Criteria:

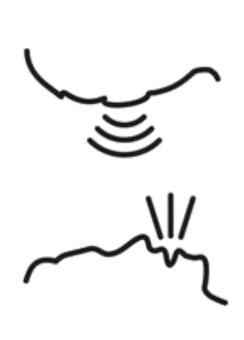
- You are audible (can be heard)
- You use spoken Standard English
- You express sophisticated ideas/information/feelings using a sophisticated range of vocabulary
- fou organise and structure your presentation using an effective range of strategies to engage the audience
- You achieve the purpose of your presentation
- You listen to questions/feedback, and respond carefully and, if appropriate, extend ideas

Example

The Adventure of the Speckled Band' is one of the many Sherlock Holmes stories: a classic work of detective fiction. One of the fundamental elements of this genre is that it contains a mystery to be solved. In The Speckled Band', the mystery is the cause of Julia Stoner's death: even though we can guess that Dr Roylott is somehow responsible, the inability to explain how she died until Holmes has gathered and analysed the evidence and constructed and proven a theory successfully engages the reader.

A way that Conan Doyle attempts to keep the reader intrigued is by ensuring that they do not understand too much too quickly. Choosing to narrate the story from the perspective of Holmes' companion, Dr Watson, is an effective way of sustaining the mystery because it allows the reader to take on this perspective as well, and we can follow Holmes' detective process in the way that Watson does. By doing this, our understanding is limited to Watson's, so we are relying on the superior intellect of Holmes to interpret the evidence and test his theories before revealing the solution or providing an explanation, successfully creating suspense for the reader.

Additionally, ...



Topic 5: International Cuisine

British people are now more adventurous with their food choice and will regularly eat food originating in other countries. Some examples of these are:

Italian Cuisine – family and food is very important to Italians

– with recipes being passed down the generations through mothers and grandmothers. Italian flavours are simple and they often use seasonal local ingredients that are home-grown or purchased in markets. Traditional dishes include pasta, pizza and risotto. Bread is freshly baked and a rainbow of fresh vegetables and salads are regularly served as accompaniments. Healthy olive oil is used instead of animal fats. Desserts include ice-cream and tiramisu (Italian trifle).



Italians take a huge amount of pleasure in food and enjoy social or family occasions where food can be shared.



Chinese Cuisine – Chinese food is often quick to make, with an emphasis on colour, flavour and texture. Much of the food is stir-fried in a wok or steamed in a bamboo steamer – both healthy ways of cooking. In a very traditional Chinese kitchen there is no oven. Traditional dishes include spring rolls, crispy duck, soups and broths, sweet and sour noodles and fried rice. Chinese food often uses aromatic spices such as ginger to flavour food. At meal times, the Chinese family will have four or five dishes at the same time and each person will have a small bowl with rice in it. Food is eaten with

chopsticks. The traditional drink with a meal is green tea which is served without milk. The Chinese present their food beautifully with carved vegetables.

Indian Food — entertaining in the home is very popular in India with all the dishes placed on the table at once and shared. Many spices and herbs are blended or ground together to make Indian food — although most dishes are spicy and mild rather than overly hot. Traditional dishes include tandoori meat and fish (cooked in a clay oven), curries, samosas, bhajis and dahls (made with lentils). Main meals are served with traditional breads (naan, chapatti, poppadoms) or



basmati rice. Desserts are not often served every day but are used for special occasions, for example sweets served for the festival of Diwali.

Topic 6: Consumer Awareness

Consumers can be defined as "a person who purchases goods and services for personal use". People are consumers on a daily basis. On your way to school you may use the bus and then buy a snack at break time – you are a consumer.

Food is always in the news and sometimes consumers are confused about what to buy and eat. To be an effective consumer you need to know your rights and responsibilities and know how to get advice on issues if you are not satisfied with the food you buy.



It is important that consumers know how to manage their resources effectively when choosing, shopping for, preparing and storing food.

Consumers have a wide range of options when shopping for food. There are advantages and disadvantages for them all, it is therefore important for consumers to decide which is the most suitable for them, for example going to a big supermarket or shopping in a corner shop.

To make good use of time, energy, and money when choosing food consider the following: Meal planning – thinking ahead will reduce the number and amount of time needed for

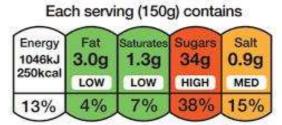


shopping; Ingredients – try and choose ingredients that will save time and money; Seasonality – choose seasonal and local foods; Value for money – compare the cost of fresh and pre-prepared ingredients.

Consumers should avoid wasting food. Every year in the UK, seven to ten million tons of food are wasted. It is thought that approximately 50% of the food wasted is still edible. The cost of food waste is significant – estimates show that it costs an average family £700 per year. Using leftovers can save money and is good for the environment.

Food labelling is important to help us to decide which food buy, how to store and cook food correctly and to be aware of the nutritional content of food. Some food labelling is required by law. 'Use by' and 'best before' dates are

there for food safety reasons and to help use up food before it spoils. Labels on food must contain precise and accurate information about the nutrients in food. Fat, saturated fat, salt and sugar are labelled as either green, amber or red. When deciding what to eat, look at the label and try to choose foods that have more green and amber and less red.



of an adult's reference intake
Typical values (as sold) per 100g: 697kJ/167kcal

Quel pays voudrais-tu visiter?

What country would you like to visit?

Je voudrais visiter... I would like to visit ... la Belgique. Belgium. le Laos. Loos. Canada. le Canada. le Vietnam. Vietnam. Gabon. le Gabon. le Sénégal. Senegal. la Martinique. Martinique. la Tunisie. Tunisia. la Suisse. Switzerland. les Seychelles. the Seychelles. car if y a ... because there is/are ... un festival de jazz.

un festival de jazz. a jazz festival.
une mosquée. a mosque.
des plages. beaches.
des éléphants. elephants.
Je voudrais aller... I would like to go ...
au lac de Genève. to lake Geneva.
au parc national. to the national park.
à la plage. to the beach.

aux temples bouddhistes. to the Buddhist temples. Je voudrais manger I would like to eat ... du poulet fumé. (some) smoked chicken. du chocolat (some) chocolate. de la soupe. (some) soup. des fruits de mer. (some) seafood. des moules-frites. mussels and chips. J'adore / J'aime ... I love / I like ... le surf: surfing.

Visite à un pays francophone!

Visit a French-speaking country!

Le pays est sur quel continent?

Which continent is the country in?

en Afrique in Africa en Europe in Europe en Océanie in Australasia

Il est comment, le paysage? What is the landscape like?

Il y a ... There ore...

des forêts (tropicales). (tropical) forests.
des montagnes. mountains.
des plages. beaches.
des rivières. rivers.
des volcans. volcanoes.

Qu'est-ce qu'on peut visiter ici? What can you visit here?

On peut visiter...

Je veux visiter...

I want to visit...

le port. the port.

l'église. the church.

Monaco est plus célèbre que le Laos.

Monaco is more famous than Laos.

On va voir des choses extraordinaires!

We will see lots of amazing things!

Le Mont-Saint-Michel est Mont-Saint-Michel is... La dune du Pilat est The Dune of Pilat is...

grand/grande big
beau/belle beautiful
vieux/vieille old

impressionant/impressionante impressive intéressant/intéressante interesting fabuleux/fabuleuse fabulous mystérieux/mystérieuse mysterious célèbre famous

historique historical
un château a castle
un monument a monument
un pont a bridge
une montagne a mountain
une mosquée a mosque

Reserver de excursions Booking trips and excursions

a town

Est-ce que tu aimes ...? Do you like ...?

J'adore...

J'aime...

Llike...

Je n'aime pas... I don't like...
Je déteste... I hate...

manger au resto eating out.

visiter des musées visiting museums.

visiter des monuments historiques.

visiting historical monuments.

aller à la piscine going to the pool.
aller à la plage going to the beach.
faire du surf. going surfing.
faire du vélo. going cycling.

faire des promenades going for walks.

Qu'est-ce qu'on peut faire ici?

une ville

What can you do here?

On peut ... You can ...
Je veux ... I want to ...

Je ne veux pas ... I don't want to ...

jouer... play...

au minigolf. mini-golf. au tennis. tennis. au volleyball. volleyball.

visiter ... visit...

le château. the castle.

des maisons historiques historic houses.

faire du sport do sport. faire un pique-nique have a picnic.

porter un costume medieval

wear a medieval costume.

Y9 French Knowledge Organiser - Summer Term 2

We are going to play football! On va jouer au foot!

Qu'est-ce que tu vas faire? What are you going to do?

Je vais... I am going...

manger beaucoup de pizza. to eat lots of pizza.

passer du temps avec ma famille.

to spend time with my family.

poster des photos. to post photos. jouer au foot. to play football. faire les magasins. to go shopping. faire du sport. to do sport.

aller à la plage. to go to the beach. lire des romans. to read novels. regarder des vidéos. to watch videos.

dormir. to sleep.

à l'avenir in the future un jour one day l'année prochaine next year

Quel est ton sport préféré? What is your favourite sport?

Mon sport préféré, c'est ... My favourite sport is ...

Ma passion, c'est ... My passion is ... le cyclisme. cycling. le ping-pong. table tennis. ruaby. le rugby.

> le ski acrobatique. acrobatic skiing.

Qu'est-ce que tu vas faire un jour?

What are you going to do one day?

Je vais habiter ... I am going to live ... in England. en Angleterre. en Australie. in Australia. en Belgique. in Belgium. au Canada. in Canada.

le vais ... I am going...

gagner une competition importante

to win an important competition.

representer mon pays. to represent my country. faire une formation. to do a training course.

être joueur / joueuse professionel(le)

to be a professional player.

On a fait le tour du monde! We did a world tour!

Comment est-ce que tu as fait le tour du monde?

How did you do the world tour?

J'ai fait le tour du monde ... I did the world tour en bus / en train. by bus / by train. à vélo / à pied. by bike / by foot.

> en avion. by plane.

Je n'ai pas voyagé en / à ... I did not travel by / on ...

Où est-ce que tu es allé(e)? Where did you go?

Je suis allé(e) dans (trente) pays différents

I went to (thirty) different countries.

Qu'est-ce que tu as fait? What did you do?

J'ai blogué I blogged. J'ai fait des vidéos. I made videos.

J'ai pris beaucoup de photos.

I took lots of photos.

J'ai mangé dans des restos traditionnels.

I ate in traditional restaurants.

J'ai vu beaucoup de sites extraordinaires.

I saw lots of extraordinary places.

l'ai logé (dans une tente / dans un hôtel).

I stayed (in a tent / in a hotel).

J'ai commencé mon tour du monde en (2018).

I started by world tour in (2018).

J'ai travaillé dans un camp de réfugiés.

I worked in a refugee camp.

II y avait ... There was / were ...

a lake / a volcano. un lac / un volcan. une forêt tropicale. a tropical forest. des animaux sauvages. wild animals. beaucoup de problèmes. lots of problems.

C'était ... It was ...

> vraiment intéressant. really interesting. absolument fabuleux. absolutely fabulous. très difficile. very difficult.

On découvre des artistes francophones

II / Elle est (musicien(ne))

Finding out about French-speaking artists

Mon artiste françophone s'appelle.... My French-speaking artist is called ...

II / Elle est né(e) le ... He/She was born on the...

II / Elle habite (au Canada) He / She lives (in Canada)

He / She is (a musician).

II / Elle est membre du groupe ... He / She is a member of the group ... Son premier succès a été... His / Her first success was ...

la chanson ... the song ... le film.... the film ... la série ... the series ...

II / Elle a chanté la chanson ... He / She sang the song ...

II / Elle a joué dans le film ... He / She played in the film ... II / Elle a joué dans la série ... He / She played in the series ... II / Elle a fait l'album ... He / She made the album ...

II / Elle va faire une tournée en...

He / She in going to do a tour in ...

II / Elle va jouer dans... He / She is going to play in

II / Elle va poster des images sur Instagram.

He / She is going to post pictures on Instagram.

II / Elle va continuer son travail avec / pour ...

He / She is going to continue his/her work with/for...

une organisation caritative

a charitable organisation

Unit 4/5: Ma región/Le sport -Second Year French Summer Term Knowledge Organiser

	Qu'est-ce qu'on peut faire	What sport can you	Quelle est ton	What's your	
	comme sport dans ta région ?	do in your area?	opinion sur ?	opinion on?	Your
	Dans ma ville/mon village	In my town/village	Je trouve le	l find	
	On peut jouer	You can play	tennis/la danse	tennis/dance	
	au basket	basketball	amusant(e)	fun	
	au billard	snooker	compliqué(e)	complicated	
	au foot(ball)	football	divertissant(e)	entertaining	The
	au handball/volleyball	Handball/volleyball	fatigant(e)	tiring	
	au tennis (de table)	(table) tennis	intéressant(e)	interesting	Lan
	au rugby/hockey	rugby/hockey	passionnant(e)	exciting	Swirr
	On peut faire	You can do	relaxant(e)	relaxing	
	du footing	iogaina	violent(e)	violent	Le fo
	S is	skiind	ennuyeux/ennuyeuse	boring	Foot
	No. 17	Sully Services	difficile	difficult	
	opn(np	opn	facile	easy	In En
	du vélo/du cyclisme	cycling	Remember to make sure adjective	ure adjective	(bidd
	du patin à glace	ice skating	endings agree for masculine/feminine	sculine/feminine	}
	de la danse	dance			
	de la gymnastique	gymnastics	énagé!	moved house!	c
30	de la musculation	weight training		In my new	Som
	de la natation	swimming	le maison	house	ılıaı
	de la voile	sailing		mere is	They
	de l'athlétisme	athletics	un saion	a living room	Voll
	de l'équitation	horse ridina	a	a kitchen	Sela
_		9		NICIGI	

	sel												
	I moved hour	In my new	house	there is	a living room	an office	a kitchen	a bathroom	3 bedrooms	a garden	new	beautiful	7
)	J'ái déménagé! I moved house!	Dans ma	nouvelle maison	il y a	un salon	un bureau	une cuisine	une salle de bains	trois chambres	un jardin	nouveau/nouvelle	beau/belle	Same back
		50	ח										

de l' = vowel

des = plural

du = masc de la = fem

Faire +

aux = plural à l' = vowel

Prepositions

au = masc à la = fem

Joner +

	Thocom	The comparation
	You use the comparative to compare two or more things.	compare two or more things.
·	plus + adjective + que = moins + adjective + que =	e = more than que = less than
	The adjective must agree with the first noun mentioned.	h the first noun mentioned.
	La natation est plus amusante que le rugby. Swimming is more fun than rugby.	rugby.
	Le football est moins compliqué que la gymnastique. Football is less complicated than gymnastics.	qué que la gymnastique. than gymnastics.
	In English, we sometimes add -er to the adjective (bigger, easier), but you can't do this in French.	d -er to the adjective t do this in French.
	Reflexiv	Reflexive verbs
-	Some verbs are reflexive and have a reflexive pronoun that goes before the verb.	d have a reflexive pronoun
	They are often actions you do to yourself, such as verbs	o to yourself, such as verbs
	Se laver	To wash oneself
	Je me lave	I wash myself
	Tu te laves	You wash yourself
	II/Elle se lave	He/she washes his/herself
	Nous nous lavons	We wash ourselves
	Vous vous lavez	You (pl.) wash yourselves
	IIs/Elles se lavent	They wash themselves

Tu es sportif/sportive?	Are you sporty?	Ma routine	My routine
Je suis (assez) sportif/sportive	I'm (quite) sporty	Je me lève à six heures	l get up at 6:00
Je ne suis pas (très) sportif/sportive	I'm not (very) sporty	Je prends le petit déjeuner à six heures dix	I have breakfast at 6:10
Je joue au rugby	I play rugby	Je me douche à six heures et quart	I have a shower at 6:15
Je fais du judo	l do judo	Je m'habille à six heures vingt-cinq	I get dressed at 6:25
Je fais de la natation	I do swimming	Je me lave les dents à six heures et demie	I brush my teeth at 6:30
Je suis membre d'un club/une équipe	I'm a member of a club/team	Je me coiffe à sept heures moins le quart	I do my hair at 6:45
Je m'entraîne deux fois par semaine	I train twice a week	Je quitte la maison à sept heures moins cinq	I leave the house at 6:55
Mon héroïne sportive est	My sporting heroine is	Je me lave à dix heures vingt	I wash myself at 10:20
Mon héros sportif est	My sporting hero is	Je me couche à onze heures moins vingt-cinq	I go to bed at 10:35

Unit 5: Le sport et la santé -Second Year French Summer Term Knowledge Organiser

I'm not well Wy arm hurts I've got stomach ache orge I've got as sore throat orge I've got a headache orge I've got an eadache orge I've got ac cold I've got toothache orge I've got a temperature I've got	Le corps	The body	Vous allez bien ?	Are you well?	Qu'est-ce qu'il faut faire ?	What n
back J'ai mal au bras My arm hurts neck J'ai mal au ventre l've got stomach ache foot J'ai mal au ventre l've got stomach ache stomach ache stomach ache loot J'ai mal au ventre l've got a neadache l've got a neadache l've got and aux yeux l've got acold at hroat J'ai mal aux dents l've got a cold throat l've got a temperature l've got a tempe	le bras	arm	Ça ne va pas.	I'm not well	Il faut	You must.
reck J'ai mal au ventre l've got stomach ache foot J'ai mal à la gorge l've got a sore throat stomach ache loot J'ai mal à la tête l've got a headache l've got a headache l've got ar ache leg J'ai mal aux yeux l've got ache l'eg l'ai mal aux dents l've got ache l'eg l'ai de la fièvre l've got at temperature l've got the fiu l'ai de la fièvre l've got the fiu l'ai la grippe l'ai la grippe l'ai la grippe l'ai la grippe l'ai l'ai l'ai l'ai l'ai l'ai l'ai l'ai	le dos	back	J'ai mal au bras	My arm hurts	travailler dur	work hard
foot J'ai mal à la gorge l've got a sore throat stomach J'ai mal à la tête l've got a headache J'ai mal aux yeux l've got a nache leg J'ai mal aux yeux l've got ar ache leg J'ai mal aux dents l've got ar ache leg J'ai mal aux dents l've got ar ache leg J'ai mal aux dents l've got toothache leg J'ai mal aux dents l've got toothache leg J'ai mal aux dents l've got a temperature l've got a cold l've got a temperature l've got a cold l've got a temperature l've got a cold l've got a temperature l've got	le con	neck	J'ai mal au ventre	I've got stomach ache	manger équilibré	eat a balan
e stomach J'ai mal à la tête l've got a headache J'ai mal à l'oreille l've got a anche J'ai mal à l'oreille l've got arache J'ai mal aux yeux J'ai de la fièvre I'n e faut pas consommer de drogue fumer de cigarettes manger du fastfood	le pied	foot	J'ai mal à la gorge	I've got a sore throat	manger des fruits et des légumes	eat fruit and
the knee J'ai mal aux yeux My eyes hurt hose J'ai mal aux yeux My eyes hurt hose J'ai mal aux yeux My eyes hurt hose J'ai mal aux dents l've got toothache head J'ai un rhume l've got a cold throat J'ai de la fièvre l've got a temperature head J'ai de la fièvre l've got the flu shoulder gyeux eye/eyes aux pied leg shoulder l'ai jambe lear hingers manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means 'it is necessary to/you manger du fastfood l'aux means l'aux me	le ventre	stomach	J'ai mal à la tête	I've got a headache	aller à la salle de fitness	go to the gy
he leg J'ai mal aux yeux My eyes hurt faire du sport dormir huit heures par nuit dormir huit heures bar nuit dormir huit heures bar nuit dormir huit heures bar nuit heures ar nuit heures ar nuit heures ar nuit heures ar li a me suis blessé(e) l've hurt my consommer de drogue fumer de cigarettes do leg me suis blessé(e) leg me suis blessé(e) l've hurt my doot manger du fastfood leg me suis plessé(e) leg me suis blessé(e) leg me suis blessé(e) l've hurt my doot manger du fastfood leg me suis plessé(e) l've dout my doot manger du fastfood leg me suis plessé(e) l've dout my doot manger du fastfood leg me suis plessé(e) l've dout my doot l'ai de l'eau source de drogue l'ai doute de cigarettes leg manger du fastfood leg me suis plessé(e) l've dout my doot l'ai de l'eau source de cigarettes l'ai de l'éau source de cigarettes l'ai de l'ai de l	le genou	knee	J'ai mal à l'oreille	I've got ear ache	être motivé(e) et déterminé(e)	be determin
the mouth J'ai mal aux dents I've got toothache dormir huit heures par nuit the mouth J'ai un rhume I've got a cold I've got a cold I've got a temperature I've got a temperature I've got a temperature I've got a temperature I've got the flu consommer de drogue I've got the flu consommer de drogue I've hurt my foot I've hurt my foot I've got a temperature I've got the flu consommer de drogue I've hurt my foot I've got the flu consommer de drogue I've hurt my foot I've got a temperature I've got I've got a temperature I've got I'v	le nez	nose	J'ai mal aux yeux	My eyes hurt	faire du sport	do sport
the mouth J'ai un rhume I've got a cold I've got a cold I've got a temperature head J'ai de la fièvre I've got at temperature head J'ai la grippe I've got the flu consommer de drogue consommer de drogue fumer de cigarettes foot iau pied leg shoulder steethà la jambe shoulder cear I've got a temperature fumer de drogue fumer de cigarettes manger du fastfood shoulder shoulder it is necessary tolyou means 'it is necessary tolyou means it is ne	la jambe	leg	J'ai mal aux dents	I've got toothache	dormir huit heures par nuit	sleep 8 hou
throat J'ai de la fièvre l've got a temperature head J'ai la grippe l've got the flu consommer de drogue consommer de drogue l've got the flu consommer de drogue consommer de drogue fumer de cigarettes foot manger du fastfood leg shoulder car l've got the flu consommer de drogue fumer de cigarettes manger du fastfood leg shoulder car l've got the flu consommer de drogue fumer de cigarettes manger du fastfood leg shoulder shoulder l'faut means 'it is necessary tolyou m	la bouche	month	J'ai un rhume	I've got a cold	boire de l'eau	drink water
head J'ai la grippe I've got the flu consommer de drogue shoulder shoulder shoulder de suis blessé(e) I've hurt my foot manger du fastfood ts teeth shoulder shoulder care fastfood shoulder should	la gorge	throat	J'ai de la fièvre	I've got a temperature	Il ne faut pas	You mustn
shoulder Je me suis blessé(e) I've hurt my foot manger du fastfood to teeth à la jambe sts fingers à l'épaule shoulder l'faut means 'it is necessary to/you manger du fastfood leg shoulder l'faut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut means 'it is necessary to/you manger du fastfood l'aut manger du fastfoo	la tête	head	J'ai la grippe	I've got the flu	consommer de drogue	take drugs
s yeux eye/eyesà la jambe leg shoulder lifaut means 'it is necessary to/you manger du fastfood lifaut lifaut	l'épaule	shoulder	Je me suis blessé(e)	I've hurt mv	fumer de cigarettes	smoke ciga
ts teethà la jambe leg shoulder strangersà l'épaule shoulder ear knees	l'œil/les yeux	eye/eyes	au pied	foot	manger du fastfood	eat fast foo
gts fingersà l'épaule shoulder ear knees	les dents	teeth	à la jambe	lea		
ear knees	les doigts	fingers	à l'épaule	shoulder	II fa	Ħ
	l'oreille	ear	aux genoux	knees	Il faut means 'it is necessary to/you	must'. It is f

preposition:	plural (les) = aux
a body part and correct i	vowel (l') = à l'
ts, use 'J'ai mal" + the	fem (la) = à la
To say something hur	masc (le) = au

Les conseils	Advice	
Il faut	You must	Use d
rester au lit	stay in bed	have
utiliser une crème	use a cream	Deni
mettre un pansement	put on a bandage	Depart
prendre des antidouleurs	take some painkillers	Depu
boire beaucoup d'eau	drink lots of water	ממח

Depuis (since)
Use depuis to say how long you have been ill:
Depuis hier – Since yesterday Depuis trois jours – For 3 days Depuis une semaine – For one week

polife beaucoup d'eau drink lots of water	ia i
Le sport - passé, présent, futur	Sport - past, present, future
Je suis membre d'une équipe locale	I'm a member of a local team
Je joue un match tous les samedis	I play a match every Saturday
Je marque beaucoup de buts	I score a lot of goals
Je gagne un match	I win a match
Je vais être membre de l'équipe nationale	I'm going to be on the national team
Je vais jouer pour la France	I'm going to play for France
Je vais marquer beaucoup d'essais	I'm going to score lots of tries
Je vais gagner la Coupe du Monde	I'm going to win the World Cup
J'ai joué en compétition	I played in a competition
J'ai marqué beaucoup de points	I scored lots of points
J'ai gagné une médaille aux Jeux	I won a medal at the Olympics

Qu'est-ce qu'il faut faire ?	What must you do?
Il faut	You must
travailler dur	work hard
manger équilibré	eat a balanced diet
manger des fruits et des légumes	eat fruit and vegetables
aller à la salle de fitness	go to the gym
être motivé(e) et déterminé(e)	be determined and motivated
faire du sport	do sport
dormir huit heures par nuit	sleep 8 hours a night
boire de l'eau	drink water
Il ne faut pas	You mustn't
consommer de drogue	take drugs
fumer de cigarettes	smoke cigarettes
manger du fastfood	eat fast food

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Il faut manger des légumes - you must eat vegetables. Il ne faut pas fumer - you must not smoke

Pour aller	How do I get to
au stade/au lac?	the stadium/the lake?
au centre aquatique ?	the aquatic centre?
au vélodrome ?	the velodrome?
au parking/au restaurant?	the car park/the restaurant?
au bureau d'information ?	the information office?
à la piste d'athlétisme ?	the athletics track?
à la salle de gymnastique?	the gymnastics hall?
la gare SNCF?	the train station?
à la gare routière ?	the bus station?
à l'hôtel ?	the hotel?
aux courts de tennis ?	the tennis courts?
aux magasins?	the shops?
aux toilettes?	the toilets?

Les directions	Directions
Allez tout droit	Go straight on
Tournez à droite	Turn right
Tournez à gauche	Turn left
Prenez la première rue à droite	Take the 1st road on the right
Prenez la deuxième rue à gauche	Take the 2nd road on the left

Year 9 Geography: Fieldwork

		Evalua			Conclu					•
Definition	Answering a geographical question about people, places or environments outside of a classroom or laboratory.	Data that you have collected yourself, first-hand , by completing surveys, interviews, or experiments.	Data that was collected by someone else and is therefore	second-hand. However, it may help to guide your own	investigation.	Using data that you have collected to create charts or graphs .	This makes your data more 'visual' and easier to read.	Studying data to try and identify patterns or trends.	Using the data you collected to attempt to answer your original	decarding and in the state of t
Key Term	Fieldwork	Primary research	Secondary	research		Data	presentation	Data analysis	Conclusion	

Geographical

enquiry

and planning

Key ideas

is a statement that can be tested. It must be clear and measurable. At the end of the enquiry, you should be able to say Fieldwork is used by Geographers to try and answer questions about the world. To ensure their discoveries are valid All fieldwork begins with using the questions we have about a specific environment to create a hypothesis. A hypothesis and scientific, an enquiry process is followed with six separate stages. These stages are shown in the image above. if your hypothesis was correct or not.

All fieldwork should end with an evaluation. This is when you reflect on your research and suggest how improvements could be made. You consider how you would do the fieldwork better if you had to repeat it.

Year 9 Geography: Africa

و. ي د		Manufacture Copp Verify	economically and	able to a person or		s and wellbeing		a major habitat.	erts and	The state of the s	graded. Africa is	s ruled by a foreign = continent	countries				
e. ±	The state of the s		of change and improvement both	f wealth and material comfort availal		d of health, comfort, happiness	by an individual or group.	unity of plants and animals found in	nd in Africa include rainforests, dese		by which land becomes drier and deg	wernment where a geographic area is		Where countries impose influence through military force and		æ.	economic force. When former colonies influence countries through the economy and
		Key Term Definition	Development The process of socially.	Standard of The degree of w	community.	Quality of life The standard	experienced by a	A large communi	Examples found	savannahs.	Desertification The process by v	Colonialism The type of gover	power.	Imperialism Where countries	Concernio force	ecolonic loice.	When former colo

Africa is the second largest continent in the world with 54 countries and a population of 1.1 billion. It sits on the African tectonic plate. It has several major river basins including the Niger, Nile, Congo, Zambezi and

Key ideas

high because of a lack of contraception and the fact that parents need children to help on farms and support them in old Africa's population is growing rapidly in countries such as Nigeria where birth rates exceed death rates. Birth rates are age. Death rates are falling due to improved access to health care, food, water and sanitation.

became independent and started to govern themselves. Countries including China which is investing heavily in Africa are The 1884-1885 Berlin Conference was a meeting of 14 nations who divided Africa amongst themselves. The UK was a colonial power ruling countries such as Ghana and Kenya until the mid-1900's. In the twentieth century African countries keen to exploit Africa's resources including bauxite, uranium, diamonds, platinum, cobalt, oil, gas and timber.

Y9 German - Summer Term 1

1. Mit welchen Alter darf man das?

Man darf ab ... Jahren in Deutschland ...

einen Teilzeitjob haben. die Schule verlassen.

Blut spenden. / heiraten.

ein Piercing haben. / ein Mofa fahren.

Ich denke, das ist richtig/falsch.

Das finde ich toll.

Das ist ganz in Ordnung.

Das ist nicht gut.

At what age are you allowed to do that?

In Germany at the age of ... you are allowed...

Topic: Rechte und Pflichten

to have a part-time job.

to leave school.

to donate blood. / to marry.

to have a piercing./ to ride a moped.

I think, that is right/wrong.

I find that great.

That is wholly acceptable.

That is not good.

2. Was ist dir (nicht) wichtig?

Geld/ Mode/ Musik/ Freizeit Meine Familie/ Mein Handy

Gute Noten

Meine Haustiere/ Meine Freunde ... ist/sind mir total/extrem/sehr/

ziemlich/nicht wichtig.

(Musik) ist mir wichtig, weil ...

sie mich glücklich macht.

ich in einer Band spiele.

What is (not) important to you?

Money / fashion / music / free-time

My family / My mobile phone

Good grades

My pets / my friends

... are totally/ extremely / very quite/ not important to me.

(Music) is important to me, because...

it makes me happy. I play in a band.

3. Wo hast du bisher gewohnt?

Ich wohne jetzt in ...

Ich habe früher in ... gewohnt.

Mein Haus hier ist ...

Mein Haus in ... war ...

Ich finde die Schule hier ...

Die Schule in ... war ...

Jetzt fahre ich ... zur Schule.

Ich bin früher ... zur Schule gegangen.

Hier ist jeder Tag (sonnig und heiß).

Ich vermisse (die Sonne).

Es ist ziemlich kalt hier!

Früher war es oft (kalt) ...

Nächste Woche werde ich ...

Where have you lived until now?

Now I live in ...

I used to live in...

My house here is...

My house in ... was...

I find the school here...

The school in... was...

Now I go... to school.

I used to go ... to school.

Here, every day is (sunny and hot)

I miss (the sun).

It is quite cold here.

It used be often (cold)...

Next week I will...

4. Wie können wir Spenden sammeln?

Wir können ...

Autos waschen.

einen Kuchenverkauf organisieren.

einen Benefizlauf machen.

ein gesponsertes Schweigen machen.

eine Modenschau organisieren.

ein Benefizkonzert organisieren.

How can we collect donations?

We can...

wash cars.

organise a cake sale.

do a charity run.

do a sponsored silence.

organise a fashion show.

organsise a charity concert.

5. Was kann man machen?

Man kann ...

umweltfreundliches Papier kaufen.

mit dem Rad zur Schule fahren.

einen Kapuzenpulli zu Hause tragen.

duschen statt baden.

Obst und Gemüse selbst kultivieren.

den Müll sortieren.

What can you do?

You can...

buy environmentally friendly paper

go to school by bike.

wear a hoodie at home.

take a shower instead of a bath.

grow your own fruit and vegetables.

sort the rubbish.

Y9 German - Summer Term 2

Topic: Das Wunder von Bern

1. Was für ein Film ist "Das Wunder von Bern"?

Ich denke "Das Wunder von Bern" ist...

ein Gruselfilm ein Liebesfilm ein Science-Fictionfilm ein Dokumentarfilm

ein Dokumentarfilm ein Abenteuerfilm ein Zeichentrickfilm ein Actionfilm ein Drama What kind of film is 'The miracle of Bern'?

I think 'The miracle of Bern' is ...

a horror film a romantic film a science fiction film a documentary an adventure film

a cartoon an action film a drama a comedy

2. Wie war das Leben nach dem Krieg?

Das Leben war/hart/schwierig/nicht einfach besonders für Kinder / Frauen /Familien

Es gab.... viel Armut

eine Komödie

viel Arbeitslosigkeit viel Obdachlosigkeit

Kriminalität wenig Geld wenig Männer wenig Essen

Viele Kinder/Leute hatten keine Hoffnung,

deswegen waren viele Menschen

verzweifelt unzufrieden schlecht gelaunt gestresst traurig deprimiert

hungrig

What was life like after the war?

Life was hard / difficult /not easy

particularly for children / women /families

There was.... a lot of poverty

a lot of unemployment a lot of homelessness

crime

not a lot of money not a lot of men not a lot of food

Lots of children/people had no hope, for this reason lots of people were

desperate dissatisfied in a bad mood stressed sad depressed

3. Vor dem Krieg war...

ich/ mein Bruder/meine Schwester...

waren wir..... war das Leben....

glücklicher/ schöner/ einfacher/ unbeschwerter

zufriedener/ entspannter/ leichter/

lebendiger/ sorgenfreier

Nach dem Krieg war das Leben... stressiger/ unglücklicher/ schwerer unzufriedener/ härter/ einsamer/ blöder /liebloser/ trauriger/ ernster , weil es viel Streit /Gewalt gab Before the war.... was....

I / my brother was / my sister

we were life was....

hungry

happier/ nicer/ easier/ more carefree more satisfied/ more relaxed/ easier/

more lively/ more carefree After the war, life was...

more stressful/unhappier/more difficult

more unsatisfied/harder/lonelier/

more stupid/ loveless/sadder/ more serious because there were lots of arguments/violence

4. Beschreib deinen Lieblingsdarsteller.

Mein Lieblingsdarsteller ist...

Er/Sie ist

Ich finde ihn/sie...

Aber manchmal war er/sie...

Es wäre besser, wenn er/sie.... wäre.

Alles in allem war der Film...

Ich würde den Film (nicht) empfehlen.

Describe your favourite character.

My favourite character is...

He/she is... I find him/her...

But sometimes he/she was...
It would be better if he/she was...

All in all the film was...

I would (not) recommend the film.

Second Year German - Summer Term

Kleider/ Klamotten Clothes

der Rock skirt der Mantel coat der Anzug suit hoodie der Kapuzenpulli die Jeanshose/ die Jeans

ieans die Hose trousers das Kleid dress das Hemd shirt das T-Shirt T-shirt die Schuhe shoes die Stiefel boots die Sandalen sandals

Wie ist es? What is it like?

kurz short lang lona weit wide-leg/ baggy schmal slim-leg/ skinny schick smart locker casual kariert checkered gepunktet spotty/ polka dot gestreift stripy glänzend glittery

Wie ist dein Stil? What is your style?

informal lässig trendig trendy sportlich sporty klassisch classic

High frequency words

when/if wenn immer always zum Beispiel for example zuerst first of all seit since/for für for möglich possible pro Jahr per year nächstes Jahr next year teuer expensive alle all/ everyone um... zu in order to

Was trägst du? What do you wear? What are you wearing?

I wear/ I am wearing ich trage... einen kurzen Rock a short skirt einen langen Mantel a long coat einen lockeren Kapuzenpulli a casual hoodie eine weite Hose a baggy pair of trousers eine schmale Jeanshose a pair of skinny jeans ein kariertes Hemd a checkered shirt ein gepunktetes Kleid a spotty dress ein gestreiftes T-Shirt a stripy T-shirt schicke Stiefel smart boots

Five key words

die Schuhe the shoes

trendia trendv

ich ziehe mich an

I get dressed

einige Leute

some people

viele Kinder

many children

ein erstes Date

Was wirst du machen? ich werde... die Karten im Voraus kaufen einen guten Film auswählen früh ankommen abholen etwas Schickes anziehen genug Geld mitnehmen mit dem Bus in die Stadt fahren ins Kino gehen essen gehen

A first date

What will you do? I will... buy the tickets in advance choose a good film arrive early pick up put on something smart take enough money with me go by bus to town go to the cinema go out to eat

ich mache mich fertig

ich style mir die Haare ich mache mir die Haare ich putze mir die Zähne ich schminke mich ich ziehe mich an ich sehe mich im Spiegel an ich benutze ein Deo ich wähle meine Kleider aus

I get myself ready

I style my hair I do my hair I brush my teeth I put on make-up I aet dressed I look at myself in the mirror I put on deodorant

I choose my clothes

On the one hand

Diskussion und Debatte

Auf der einen Seite

Discussion and debate Viele/ Einige Leute sagen Many/some people say Meiner Meinung nach In my opinion Erstens Firstly Secondly Zweitens Schließlich Finally Du hast gesagt ... aber ich denke You said... but I think

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HISTORY KNOWLEDGE ORGANISER

	Chronology	Key Words	Definition
1902	Balfour Act	National Front	Far right political group – Anti immigration
1906	Free School Meals	SS Empire	The ship that brought the first immigrants to
1907	School Medical checks	Windrush	Britain from the Caribbean in 1948
1908	Children's Charter / Pension	Immigration	The policy of people moving to one country from
1911	National Insurance Act		another country for work or to settle
14 Apr 1912		Immigrant	A person or group of people who emigrate to
1914-18	World War One		another country for work or to settle
1939-45	World War Two	Labour	Another term for 'work' or 'working'
1939	Child evacuees	Act	Another term for 'Law' passed by Parliament
1944	Education Act	Race	A physical, behavioural or cultural aspect
5 July 1948	Introduction of NHS		defining a group of people Acts of violence, intimidation, prejudice or
1948	British Nationality Act	Racism	
1948	Empire Windrush	Terry Transport	discrimination towards a particular Race Treating people differently based on their race,
1948	Children's Act	Discrimination	
1958	Campaign for Equal Pay	Tonda Haisa	gender, sexuality
1958	Summer of Violence	Trade Union	Fights for improvement in worker's rights
May 1960	Battle of the Beach(es)	Beatlemania	The influence of the Beatle's music on society
1961	The pill available	Equality	All races, genders & people treated the same
1967	Abortion Act	Industry Women's Land	Manufacturing output of a country Women who stepped into the gaps left by the
1968	Rivers of Blood speech		men who went off to war and farmed the food
1969	Divorce Act	Army Rationing	The limits on some food products during war
1975	Equal Pay Act	Liberation	Another term for being freed
1975	Sex Discrimination Act	Liberation	A movement fighting for women to have more
1977	Battle of Lewisham	Women's Lib	equal status and more freedom / choices
1978	Winter of Discontent	Nationality	
1979-90	Thatcher first female PM	Gender Pay Gap	Where a person comes from eg English A gap where men are paid more than women
Apr 1981	First Brixton Riot		A social system in which black / other non-white
July 1981	Toxteth Riots	Colour Bar	people are denied access to that of white people
1983-85	Miner's Strikes	Liberal Reform	Laws introduced to deal with poverty in Britain
	#Blacklivesmatter	Poor Relief	Financial support for people in deep poverty
2013	movement	LOW LANG	Workhouses / outside work set up by the
2018	Windrush Scandal	Poor Law	government providing food and shelter
4		Labour Party	Political party with socialist ideology
	Topics Key	Conservative Party	Political party a more nationalist ideology
		Liberal Democrats	Political party with a moderate central ideology
Youth W	omen Education Tech	Socialism	A political ideology where the wealth of the country is fairly divided amongst all citizens
(Alterial and		Cradle to Grave	Being looked after from birth to death by NHS
Poverty Reform		Welfare State	The state tries to protect the health and wellbeing of its citizens, supporting in difficult times





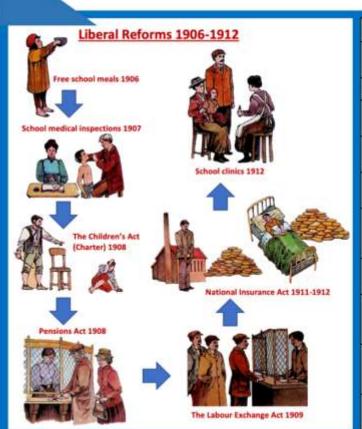
Margaret Thatcher: Britain's first Female PM



Nye Bevan – Health Minister Introduced NHS July 5th 1948

Key People	Role
Enoch Powell	Politician who delivered Rivers of Blood racist speech
Arthur Scargill	Union leader in charge of the coal miner's strikes
Nye Bevin	Labour Health Minister introduced NHS
Charles Booth	Investigated poverty in London, reported conditions
William & Catherine Booth	Started the Salvation Army
Seebohm Rowntree	Investigated poverty in York, reported conditions
Margaret Thatcher	First female Prime Minister 1979-1990
Clement Attlee	Prime Minister straight after WW2
William Beveridge	Identified '5 giants' and proposed a welfare state
David Lloyd George	Chancellor during Liberal Reforms, later Prime Minister
Winston Churchill	Prime Minister during WW2

HISTORY KNOWLEDGE ORGANISER



Key discoveries / ideas

Beatlemania: A popular craze for youngsters following the Beatles

Mods, Rockers & Teddy Boys: Different groups for teenagers to join and identify with. The beginnings of challenging authority

NHS: An organisation that will look after ever citizen from birth to death for free (at the point of use - paid for in extra taxes)

Technology: Titanic, The Pill, items for the home (washing machines, hoovers, cookery equipment), Television, Cars, Motorbikes, Video

Core Knowledge

As the economic situation improved after WW2, almost everyone had a job and their own money including teenagers. This led to a new freedom creating their own identities.

Music & pop culture became a massive influence in people's lives, especially teenagers.

The introduction of the pill gave women more freedom in the choices they could make contributing to a more independent woman not having to settle for being a housewife.

The Boer war and WWI highlighted to the government how poverty was affecting Britons sewing the seeds for it to intervene more and help people which would be the Welfare State.

The damage both physically and economically of WW2 meant Britain had to change. This led to the building of new towns and cities, the welfare state and the NHS. This in turn meant there was a huge need for labour leading to a large influx of immigrant workers.

The Liberal Reforms came about because the government realised Britain was falling behind on the global scale. The USA and German economies were much healthier and their armies much stronger. The investigations by Rowntree and C. Booth highlighted how terrible life was for those in poverty prompting the Liberal Government to act.

The 5 Giants of society causing a lot of the problems were identified as 'Want' 'Ignorance' 'Disease' 'Squalor' and 'Idleness'. The Labour government after WW2 believed if they got rid of these issues in society Britain would be healthier, fairer and stronger

The British Nationality Act of 1948 offered immigrants from the Commonwealth of old colonies British Citizenship and a passport if they came to Britain. The first migrants arrived on the SS Empire Windrush from the Caribbean. Many came from India & Pakistan, bringing new cultures, foods, music and attitudes to Britain leading to our multicultural society of today.

The influx of foreigners to Britain led to some extreme political views and racial violence particularly in the black community. Many Britons felt that the immigrants were taking their jobs and it was time to send them home, leading to the creation of the National Front and political speeches like Enoch Powell's Rivers of Blood. Riots and protests grew more violent in the 1980s in London and Liverpool.

Education changed dramatically from just boys getting a basic education, to the promotion of grammar schools and comprehensives to finally compulsory education for boys and girls up to the age of 18. There is still some inequality in education today that many are fighting

Common misconceptions

Not all teenagers chose to join rebel gangs. Not all women wanted the new freedoms, they felt pressurised.

Immigrants who came from the former colonies of the British Empire classed themselves as British, especially after fighting for Britain in both World Wars.

Lots of men supported the Women's Lib movement and equality for all too.

Although the immigrants faced lots of abuse and prejudice, most of Britain welcomed them and supported them.

Books / Articles / Films / websites

Brassed off - poverty & Miner's strikes

Liberal Reforms BBC Bitesize

Back in Time for School BBC iPlayer

Andrew Marr's Modern Britain Book/TV

Key Themes

Government, Protest, Democracy, Military, Empire, Migration, Technology, Women

Year 9 Knowledge Organiser **SEQUENCES**

Key Concepts

Arithmetic or linear sequences

increase or decrease by a common amount each

Geometric series has a common multiple between each term. Quadratic sequences

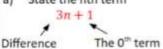
include an n^2 . It has a common second difference.

Fibonacci sequences are where you add the two previous terms to find the next term.

Linear/arithmetic sequence:



State the nth term



b) What is the 100th term in the sequence?

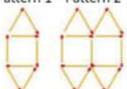
$$3n + 1$$

 $3 \times 100 + 1 = 301$

c) Is 100 in this sequence?

$$3n + 1 = 100$$

 $3n = 99$
 $n = 33$
Yes as 33 is an integer.



Pattern 3

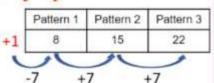
Examples

Linear sequences with a picture:

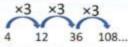
State the nth term.

Hint: Firstly write down the number of matchsticks in each image:

7n + 1



Geometric sequence e.g.



Quadratic sequence e.g. $n^2 + 4$ Find the first 3 numbers in the sequence

First term: $1^2 + 4 = 5$ Second term: $2^2 + 4 = 8$ Third term: $3^2 + 4 = 13$

& hegartymaths 198, 247-250, 264

Key Words

Linear Arithmetic Geometric Sequence Nth term

1) 1, 8, 15, 22,

Find the nth term b) Calculate the 50th term c) is 120 in the sequence?

2) $n^2 - 5$ Find the first 4 terms in this sequence

ANSWERS: 1a) 7n - 6 b) 344 c) 18 so yes as n is an integer 2) -4, -1, 4, 11

Year 9 Knowledge Organiser Transformations

Key Concept Properties of congruent shapes:

- The shapes will be exactly the same shape and size



Properties of similar shapes:

- The corresponding angles will be the same if shapes are similar.
- Corresponding edges must remain in proportion.



A hegartymaths Clip Numbers 614-618, 637-649

Key Words

Transformation: This means something about the shape has 'changed'. Reflection: A shape has

been flipped.

Rotation: A shape has been turned.

Translation: A

movement of a shape.

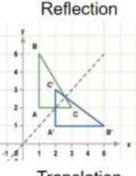
Enlargement: A change in size, either bigger or smaller.

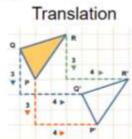
Congruent: These shapes are exactly the same shape and same size but can be in any orientation.

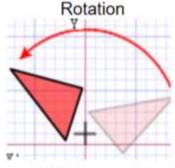
Similar: Two shapes are mathematically similar if one is an enlargement of the other.

You can find the centre of enlargement connect the corresponding vertices.

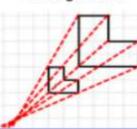
Examples











- Can you fully describe each of the transformations above?
- Which of the shapes have stayed similar? Which are congruent?

1) Reflection in the line y=x, Rotation of 120° anti-clockwise about (0,1), Translation of (3), Enlargement scale factor 2 (or %) cenre ANSWERS: isn't known! 2) Reflection, Rotation and Translation make congruent shapes, Enlargement makes similar shapes (only congruent if scale factor is -1)

Year 9 Knowledge Organiser EXPANDING AND FACTORISING

Key Concepts

Expanding brackets

Where every term inside each bracket is multiplied by every term all other brackets.

Factorising expressions

Putting an expression back into brackets. To "factorise fully" means take out the HCF.

Difference of two squares

When two brackets are repeated with the exception of a sign change. All numbers in the original expression will be square numbers.

A hegartymaths

160-166, 168, 169,223-228

Examples

Expand and simplify:

1)
$$4(m+5)+3$$
 3) $(p+3)(p-1)(p+4)$
= $4m+20+3$ = $(p^2+3p-p-3)(p+4)$
2) $(p+3)(2p-1)$ = $(p^2+2p-3)(p+4)$

$$= p^{2} + 4p - p - 2 = p^{3} + 4p^{2} + 2p^{2} + 8p - 3p - 12$$

= $p^{2} + 3p - 2 = p^{3} + 6p^{2} + 5p - 12$

Factorise fully:

1)
$$16at^2 + 12at = 4at(4t + 3)$$

2)
$$x^2 - 2x - 3 = (x - 3)(x + 1)$$

3)
$$6x^2 + 13x + 5$$

$$= 6x^2 + 3x + 10x + 5$$

$$= 3x(2x+1) + 5(2x+1)$$

$$= (3x+5)(2x+1)$$

4)
$$4x^2 - 25$$

= $(2x + 5)(2x - 5)$

Key Words

Expand Factorise fully Bracket Difference of two squares A)Expand:

1)
$$5(m-2)+6$$
 2) $(5g-4)(2g+1)$ 3) $(y+1)(y-2)(y+3)$

B) Factorise:

1)
$$5b^2c - 10bc$$
 2) $x^2 - 8x + 15$ 3) $3x^2 + 8x + 4$ 4) $9x^2 - 25$

ANSWERS: A 1) 5m-4 2) 108^2-3g-4 3) $(3x+2)^2-5y-6$ B 1) 5bc(b-2) 2) (x-3)(x-3) (3x+5)(x+5)

Year 9 Knowledge Organiser PYTHAGORAS' THEOREM

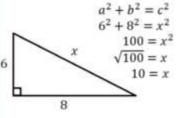
Key Concepts

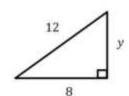
Pythagoras' theorem only workS with right angled triangles.

Pythagoras' Theorem – used to find a missing length when two sides are known $a^2 + b^2 = c^2$

c is always the hypotenuse (longest side)

Examples





Questions

$$a^{2} + b^{2} = c^{2}$$

 $y^{2} + 8^{2} = 12^{2}$
 $y^{2} = 12^{2} - 8^{2}$
 $y^{2} = 80$
 $y = \sqrt{80}$
 $y = 8.9$

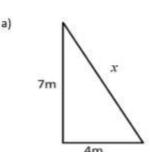
Key Words

Right angled triangle
Hypotenuse
Opposite
Adjacent
Sine
Cosine
Tangent

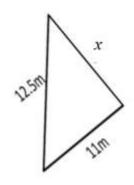
A hegartymaths

498-499, 509-515

Find the value of x.



b)



m46.2 (d m30.8 (s:283W2NA

ELECTRONIC DANCE MUSIC (EDM) YEAR 9- UNIT 3

EDM is an Acronym that stands for 'Electronic Dance Music'. Also known as "Dance Music", "Club Music" pr simply "Dance" it was made largely for nightclubs and festivals. A constant speed (usually 120bpm) allows DJs to create a seamless 'mix' by joining several tracks together without a gap.

D Minor Chord

A Minor Chord

Bb Major Chord

C Major Chord

This sample is so famous The most sampled song ever is the drum break from 'Amen, Brother' by The Winstons (1969) recorded directly from a pre-existing song.

A 'sample' is an extract

Sampling

it is known as the 'Amen Break'. The original tempo is 136 BPM

KEY EDM ARTISTS



Tracks of My Tears' Tracks include: 'Wake Me Up' 'Levels' AVICII



Where Are U Now?' 'With You Friends' Tracks include: 'Bangarang' SKRILLEX



'Heartbreak Anthem' DAVID GUETTA 'Shot Me Down' Tracks include: 'Titanium'

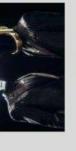


CALVIN HARRIS 'We Found Love' Tracks include: 'Promises' 'One Kiss'



'One More Time' Tracks include: DAFT PUNK 'Get Lucky' 'Da Funk'

Phythm in Music







ない。というないというとうというできている。

V4 + V4 + V4 + V4mi

semiquavers

V2 + V2=1

ar of quaver

1/4 beat

V2 beat

quaver

2 begts

beat

Value 4 beats

Symbol

Term

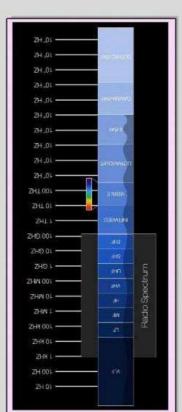
Rhythm in Music

YEAR 9— UNIT 4 PODCASTING

Radio broadcasting has been around since the 1800s, with the first ever commercial radio stations being established in the 1920s. Radio waves allow live broadcasting from location to others, either on a local or national scale. Thanks to the internet, broadcasting no longer relies on radio waves, and can easily be spread globally; however traditional radio stations still remain popular today.











UHF - Ultra High Frequency FM - Frequency Modulation

VHF - Very High Frequency

MW - Medium Wave

LW - Long Wave

SW - Short Wave

Radio stations can cover either nationally or locally. Nationwide = a whole country for example England Local = a region such as Wisbech or Peterborough BBC KISS Radio RADIO CLASSIC M



Popular Podcasts

カイング かた かかり かりがら アディア とうじょうしゃ



KHz - Thousand oscillations per second
MHz - Million oscillations per second
GHz - Billion oscillations per second
THz - Trillion oscillations per second

Radio Waves

9.5 KS3 Core PE Knowledge Organiser: Energy use, Diet, Nutrition & Hydration

Diet

A balanced diet is described as eating the right foods in the right amounts, our diet needs to also be varied in order to provide the nutrients that we need. A balanced diet will allow us to exercise and work properly.

The 7 components of a balanced diet are:

- Carbohydrates a macronutrient that provides energy (in foods such as bread, rice, pasta and potatoes)
 - Proteins a macronutrient that aids the growth and repair of muscles (in foods such as cheese, milk, eggs, lean meat, fish)
- Fats a macronutrient which provides energy but in excess can lead to weight gain (in foods such as butter, oil, fatty meat, fried food)
- immune system (vitamins in fresh fruit and vegetables, minerals in vegetables Vitamins and minerals - help keep our body healthy and can improve our and meat)
- Fibre (aids digestion in cereals, vegetables and nuts) and water (prevents hydration)

Dietary manipulation can aid both training and performance.

Q - Which athletes may need to carefully think about the timing of protein intake and why? Q - Which athletes may need to partake in carbohydrate loading in preparation for their event?

Energy balance:

If the calories you intake matches the calories you expend you would have an energy balance.

Optimum weight:

An individual's optimum weight is dependent on their **bone structure**, **height**, **gender** and **muscle girth**. These factors would also dictate which sport or position an individual would be more suited to excel in.



Command word: Identify
Can require a selection from a given stimulus or resource, for example an option from a multiple-choice question

- Q) Identify the athlete that is least likely to worry about the timing of their protein intake.
- a. Sprinter
- b. Shot putter
- Long-distance cyclist
- Power lifter

Can you work out why?

Key Vocabulary:

Balanced diet, energy balance, macronutrients, carbohydrates, fats, proteins, micronutrients, vitamins, minerals, fibre, water, optimum weight, hydration



The eat well guide shows the recommended proportions of different types of food that we should eat to maintain a balanced diet.

Q - What might 'macro' and 'micro' mean in terms of quantities?

Common Misconceptions:

- Water does not just mean actual water in terms of dietary intake. It can be in the form of other drinks and there is also water contained in many foods.
- A balanced diet and energy balance are not the same thing. A balanced diet refers to what should be included in your diet and energy balances refers to the quantities that we consume (energy in) in relation to how much energy we use through exercise (energy out)

9.6 KS3 Core PE Knowledge Organiser

The Consequences of a Sedentary Lifestyle

seriously lacking in physical exercise lifestyle that is A sedentary lifestyle is a or activity.

Key Words

Obesity, Diabetes, Overfat,

Overweight

Sedentary lifestyle

The term overweight means you weigh more than

Overweight

the expected weight for your height and sex.

Impact on a sedentary Lifestyle on weight

may be overweight due to muscle girth and bone density. Being overweight is not harmful unless it is accompanied You can be overweight but not over fat. Elite athletes with being overfat. Overfat

More People leading a Sedentary Lifestyle - Why?

More people use cars and public transport than cycle or walk More jobs are computer based and therefore sedentary Large amount of time at school or work is spent sitting Large amount of time at home is spent sitting playing computer games

and watching TV

lifestyle Health riskS associated with a sedentary Health Risk

Explanation

Due to inactivity and a reduction in metabolic r	Being overweight or obese can lead to poor	self-esteem and lack of confidence	Due to lack of weight bearing exercise	Due to inactivity muscles are weak		Being overweight can increase the risk of	developing type 2 diabetes	Heart disease and High blood pressure and cholesterol increase	risk of a heart attack and a stroke
Obesity	Depression		Osteoporosis	Poor muscle tone	and posture	Type 2 diabetes		Heart disease and	stroke

The term overfat means you have more body fat than You should have.

people may have little muscle girth and a low bone density. It is possible to be overfat but not overweight. Inactive

Obese

The term obesity is used to describe people who are very overfat.

ate

3ody fat has increased to a level that is seriously unhealthy. flexibility, stress on bones and joints, heart disease, type 2 High levels of body fat can lead to: mobility issues, lack of diabetes, depression and a low self- esteem.

The Impact on sustained involvement in physical activity

Health problems such as heart disease will prevent you from taking part in strenuous exercise.

walking or running, this will affect your ability to take part If you become too tired, immobile or have difficulty in physical activity.

the

Command Word – Explain (Explain means Justify a point. The answer must contain some linked reasoning)

Question – Explain how a sedentary lifestyle can lead to various health risks and how they may affect participation in physical activity (3 marks). Point 1 – explain an example of a health risk associated with a sedentary lifestyle (A01). Point 2 – explain a possible cause of Words you could use: heart disease, diabetes, weight gain, poor sleep, poor self-esteem, osteoporosis, loss of muscle health risk (A02). Point 3 – explain how this may affect your ability to take part in physical activity (A03).

tone, depression, high blood pressure, weak muscles, lack of flexibility, damaged blood vessels.

Year 9 Topic 3: Ethics

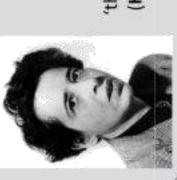


KEY QUOTES

'God is dead and we have killed him'
(Nietzsche)



'Nature has placed mankind under the governance of two sovereign masters, pain and pleasure.' (Jeremy Bentham)



'the banality of evil' (Hannah Arendt)

KEY PEOPLE

Hannah Arendt – German philosopher, attended the trial of Adolf Eichmann, wrote about the 'banality of evil'.

Jeremy Bentham – English philosopher, founder of utilitarianism, argued that pleasure and pain are the same as good and bad.

Philippa Foot – English philosopher, designed the runaway train thought experiment.

John Locke – English philosopher, argues that when we are born our mind is like a blank slate.

John Stuart Mill – English philosopher, developed utilitarianism, argued that the quality of pleasure and pain is more important than the quantity.

Friedrich Nietzsche – German atheist, said humans no longer need the idea of God.

Robert Nozick – American philosopher, argued that humans value more than just pleasure.

John Searle - American philosopher, argued against the claim that computers can think.

Peter Singer – Australian philosopher and utilitarian, popularised the term 'speciesism', prejudice and discrimination against animals.

Alan Turing – English computer scientist and philosopher, designed a test to show whether a computer can think.

_			
_	Key Word	Definition	What is ethics? Ethics is deciding what is right and wrong, good and bad. Morality is
⋖	Absolutism	The view that certain actions are inherently good or bad.	influenced by where you live. Some people say some things are always good or bad, whereas other people say different things are
4	Altruism	Selfless actions done without thought or expectation of reward.	good or bad depending on the situation. What did Nietzsche helieve?
ū	Ethics	The philosophical study of right and wrong.	Freidrich Nietzsche believed that all humans have a natural desire for strength and power. He believed people who were selfless and caring
2	Morality	Ideas or principles about what is right and wrong.	and forgiving were weak
	Relativism	The view that whether an action is good or bad depends on the situation.	Utilitarianism is the theory says that the best action in any situation is
<u>⊢</u> 47	The will to power	A term used to describe a natural human desire for strength and power.	the one which creates the greatest amount of good for the greatest number.
Ι =	Hedonic calculus	Bentham's way of calculating which actions are right and which are wrong.	The runaway train dilemma This was a thought experiment invented to examine a philosophical idea. The
D	Utilitarianism	The theory that the best action in any situation is the one which creates the greatest amount of good for the greatest number.	philosopher Philippa Foot thought morality should not be based on the consequences of an action. It is a philosophical problem that looks at whether it is right to deliberately kill one person to save the lives of many people.
⊢ ù	Thought experiment	An imaginary scenario invented to examine the consequences of a philosophical idea.	The banality of evil
 	The banality of evil	A phrase used by Hannah Arendt to describe how evil can result from ordinary. thoughtless behavior.	Adolf Eichmann was a senior Nazi during WW2. His job was to transport Jews in the most efficient way to the concentration camps. He did not actually kill anyone but he was an important part of the process. Hannah Arendt said the frightening thing about him was
I	Holocaust	The killing of six million Jews by the Nazis in Germany between 1933 and 1945.	that he was an ordinary man who carried out orders without thinking for himself. She said people should think for themselves, and speak up when we see that something is evil.

	Key Terms	Definitions	Religious Studies: Chri
	Monotheism	One God – Christians believe in the oneness of God	What do Christia
	Trinity	Three sides to the one God (Father, Son, Holy Spirit)	Christians are monotheists, they believe
	Omnipotent	All-powerful	Just and forgiving. They say God created to the Big Bang and evolution rathe
	Loving	Kind and caring	M
	Just	Fair	Christians believe there are three sides to
	Omnipresent	Everywhere	but three sides, the trinity is god the rat
	Forgiving	Pardoning someone when they have done wrong	
	Jesus Christ	God incarnate, God on earth	Jesus is seen as God incarnate, God or celebrated at Christmas when his birth is r
	Incarnation	God comes down to earth as Jesus to help the world	person; he also shows Christians what God
	Crucifixion	Jesus was killed on a cross	Baptist, was popular with many but also o
48	Resurrection	Christians believe Jesus rose from the dead	on Good Friday. On the Sunday he is belie
3	Ascension	After his resurrection, Jesus ascended to heaven.	right hand of the father'. At his last suppe
	Parables	A story with a meaning.	Communion or the Furharist Stories
	Miracles	Events that break the laws of nature?	Wha
	Baptism	Jesus was baptised, so are many Christians.	Everywhere but unseen, Christians say the
	The Last Supper	Jesus shared bread and wine, Christians today remember this with Holy communion / the Eucharist.	the spirit, and at creati
	The Lord's Prayer	Jesus taught his disciples to pray 'Our Father'.	"In the beginning God created the I
	The Word	Jesus is seen as the word of God.	the earth God created man in his
	Holy Spirit	Third person of the Trinity, God unseen but present	in the image of God he created him female he created him
	Pentecost	When the Holy Spirit came to the disciples.	
	Easter	Remembers Jesus' death and resurrection.	"The fruits of the Spirit are love, in
	Christmas	Remembers Jesus' birth and incarnation.	gentleness

ristianity Beliefs and Teachings

ans believe about the nature of God?

in one God who is eternal, omnipotent and omnipresent, loving, the universe, but they may accept that he started the process of er than accepting the traditional Bible stories in Genesis.

/hat about the Trinity?

to God, the three persons of the Trinity. Like a triangle, one shape ither, God the Son (Jesus) and the Holy Spirit. Each person is fully hey are separate but one being.

What about Jesus?

od is like. He did this by telling parables, and by the way he treated remembered. Jesus was a human who walked earth as a physical 40 days later Jesus ascended to heaven where he 'is seated at the ieved to have resurrected from the dead, and he appeared to his disliked by some. He was crucified and died, this is remembered per before he died Jesus shared bread and wine with his disciples, rform miracles. He was baptised in the River Jordan by John the on earth, he is very important for Christians. The incarnation is nce of me', which many Christians still do today calling it Holy s of Jesus are found in the 4 gospels (good news) in the Bible.

nat about the Holy Spirit?

seen as inspiring, a comforter. Christians talk about the 'fruits of the Holy Spirit was sent to the disciples on the Day or Pentecost, tion 'the spirit of God hovered over the waters'.

heavens and m, make and s own image, Senesis 1

Key quote on Jesus:

believes in him may not die but have "For God so loved the world he gave his only son, that everyone who eternal life.." John 3:16

quotes on the Holy Spirit:

joy, peace, patience, kindness, goodness, faithfulness, s and self control." Galatians 5:22

Key Terms	Definitions	
The Afterlife	The idea of a life after death, death is not the end.	
Heaven	Paradise, a place with God.	
Hell	Eternal punishment, a place away from God.	
Judgement	Who goes to heaven? People are judged by God.	
Purgatory	Roman Catholic belief, an inbetween state.	
Resurrection	Jesus was resurrected, so can humans be.	
(Reincarnation	Not a Christian belief.)	
Souls	The spiritual side of the body said to survive death.	
Creation	Where did the universe come from?	
Problem of Evil and suffering	How does an omnipotent, all-loving and just God allow bad things to happen? Why do we suffer?	
Free will	Humans can choose how they behave and act.	
Sin	A thought or action that separates humans from God.	
Original Sin	Adam and Eve's sin, shared by all humans.	
The Devil	Satan, Lucifer. A source of temptation and bad.	
Salvation	Being saved.	
Means of salvation	How to be saved and reach heaven.	
Salvation by law	Salvation by following rules like the 10 commandments	
Salvation by grace	Salvation by the grace of God / Jesus.	
Salvation by spirit	Salvation through the Holy Spirit.	
Atonement	Humans and God being brought back together.	
Evangelism	Telling others the good news of Jesus.	
		1

Religious Studies: Christianity Beliefs and Teachings

What do Christians believe about the afterlife?

paradise, a place with God. The Bible also talks about hell, the opposite to heaven, a place of torment and While all Christians believe in heaven, some question whether a loving God would ever send anyone to Christians say death is not the end, as Jesus was resurrected so humans can be into heaven, seen as eternal punishment. Catholics talk about purgatory, a place in between heaven and hell. suffering where people can be punished. Judgement by God takes place after death.

What about salvation?

seen as God's loving gift. Jesus (the second Adam) atones / makes up for original sin and allows humans a way back to God and heaven. This is why some Christians (but not all!) say you have to believe in Jesus to To get to heaven you need to be saved, this is the idea of salvation, saved from sin and its consequences works', actions to help others. However, no one is perfect, so salvation by grace through faith in Jesus is be saved, and they see evangelism as very important as it is a way to 'spread the good news' of Jesus. and granted eternal life with God. Christians say people can be saved by obeying God's laws, and 'by Christians say the Holy Spirit gives grace and guidance which leads to salvation.

What is Original Sin?

sinned. However, Original Sin is not just seen as this one act, it is also the in-built tendency humans have to do wrong and disobey God. Some Christians say we are born in this state of sin and baptism removes separated humans and God, bringing evil and suffering into the world. The devil tempted humans, they Adam and Eve sinned by disobeying God's command, this is the fall from grace, the Original Sin, which this sin, one reason for infant baptism.

What is the Problem of Evil and Suffering?

he will want to stop unfair things happening - so why doesn't he? Christians say human free will means we others? If God is omnipotent he could stop this, especially as Christians say he is all-knowing. If God is just The Problem of Evil challenges belief in God. If God is all-loving, why does he let people suffer, and hurt sin, we follow the devil's temptations. They also say that our suffering ends and is rewarded in heaven.

Key quotes on heaven/hell:

The Parable of the Sheep and the Goats Matthew 25

Key quote on salvation:

Jesus said "In my Father's house there are many rooms." John 14:2

Key quotes on salvation:

Jesus said 'I am the way, the truth and the life. No one comes to the Father except through me." John 14:6 **Biodiversity** is the variety of different species of organisms within an ecosystem.

Year 9 Topic 3 Biology

Knowledge Organiser

Biodiversity can be reduced by: altering habitats, hunting species to extinction, introducing toxic compounds into food webs, introducing foreign species to new environments.

reintroduction of hedgerows around field margins, reducing the use of landfill, reducing Biodiversity can be increased by: breeding programmes, protecting rare habitats, CO, emissions.

Biodiversity Pollution Deforestation

Tier 2 Vocabulary

Food chain Consumer

Producer

Community

Habitat

Ecosystem

Tier 3 Vocabulary

Food web Organism Extinction

interdependence

Ecosystem - the interaction between living organisms and Community – a group of organisms living together Habitat – the area where an organism lives. the non-living environment.

Interdependence – when two or more organisms rely on each other for food, shelter etc.

Animals compete for: food, mates and space

Plant compete for: light, water, minerals and space

intensity, temperature, moisture levels and carbon dioxide Abiotic factor - non-living factor that can have an effect on a species. Examples: light concentration. Biotic factor – a living factor that can have an effect on a species. Examples: availability of food, new predators, new pathogens, being outcompeted.

Producer:

Eutrophication Decomposer

Quadrat

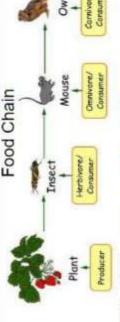
Extremophile

Predator

Prey

Adaptation

Abiotic Biotic



Photosynthesising

plant

Always a

Prey – an animal that is killed and eaten by other animals. Predator – an animal that kills and eats otner animals

Adaptation – features that allow an organism to survive in its habitat. Structural adaptation - physical features e.g. Bright colours to attract a mate

Functional adaptation - how the organisms body operates, e.g. photosynthesis in plants Behavioural adaptation – the way an organism acts, e.g. Hibernation



Extremophile – an organism that is adapted to live in an extreme environment, e.g. very high temperature, acidity, very salty

Example:

Curls into ball when threatened (exposes quills) Behavioural Adaptations

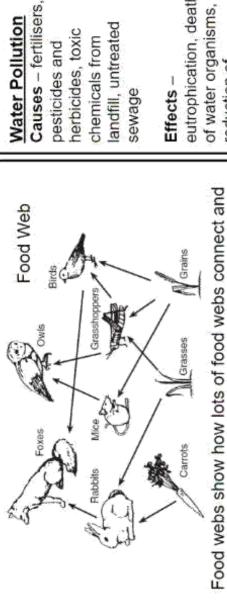
Digs burrows in which to nest and rest

May hibernate during winter in very cold regions

Protruding snout (for accessing termite mounds) Sharp quills for protection from predators Sharp claws for digging / burrowing Structural Adaptations

Ears sensitive to low frequencies (detect ant sounds) Well developed offactory system (used for detection)

Tongue can stiffen and penetrate soil due to blood flow



interact.

Random Sampling (estimate the organisms in an area)

Place quadrat randomly, using a random number

biodiversity

eutrophication, death of water organisms, landfill, untreated herbicides, toxic chemicals from pesticides and reduction of Effects sewage

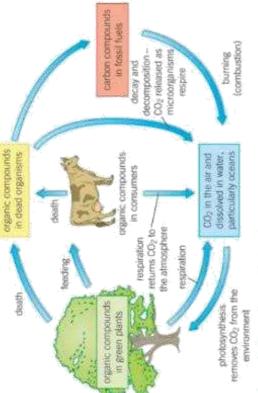


Figure 2 The carbon cycle in nature

Land Pollution

Causes - landfill sites

Effects – toxic chemicals in soil, reduction of biodiversity, toxic chemicals build up in food chains

Air Pollution

Calculate the number of organism in the whole area

using the calculation:

Repeat at least 10 times across the whole sample

Count the organisms in the quadrat

αi 3

generator.

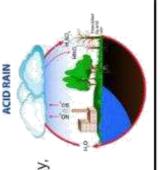
x number of organisms

Est. population size = total area

area sampled

Causes - burning fossil fuels

Effects - plants covered in soot, acid rain



Advantages - Provide land for cattle and rice fields, grow crops, clear space Deforestation - cutting down trees on a large scale

for building

Disadvantages - release of carbon dioxide into the atmosphere, reduction in carbon dioxide being taken in from the atmosphere, reduction in biodiversity, increased methane.

Causes - increased carbon dioxide and methane in the atmosphere Effects - changes in migration patterns, survival of well-adapted organisms, extinction, increased sea levels, changes in weather Global Warming - the increase in average global temperature

Gene Bank – a site where genetic material is stored to be used later to increase the numbers of endangered plants and animals.

Uses of Land

Mining - habitat destruction

Farming - pollution from fertilisers, less nesting sites Landfill - toxic chemicals enter food chains, soil and Building - habitat destruction, road divide habitats water, reducing biodiversity, loss of habitats

Peat Bogs

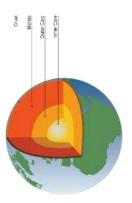
Wet environments formed of partially decomposed plant material. Act as a carbon store.

Destruction leads to - reduced biodiversity, release of carbon into the atmosphere.



Earth's structure:

Plate tectonics is where the Earth is split into pieces known as plates.

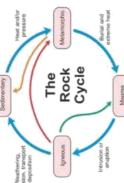


Pangea - was a supercontinent that existed millions of years ago.

Rock Formation

Sedimentary Rock-Sediments

settles is compacted, and then cement together.



Igneous Rock –

From volcanoes, slow cooling gives big crystals for example granite known as intrusive igneous rock. Fast cooling gives little crystals for example Basalt, known as extrusive igneous rock

Metamorphic Rock – Formed by heat and pressure acting on existing rocks. They do not melt the particles are just rearranged. For example marble was limestone.

Earth's atmosphere - Early

The early	The early atmosphere
Gas	% in atmosphere
Carbon dioxide	92
Nitrogen	4
Methane	2
Ammonia	2

Rock types and properties:

Sedimentary Rock - soft, porous, have layers and may contain fossils.

Examples: Sandstone and limestone.

Igneous Rocks – Hard and durable, crystals and non porous – NO fossils.

Examples: Pumice, basalt and granite.

Metamorphic Rock — Stringed appearance

Metamorphic Rock – Striped appearance, contain crystals, non porous – NO fossils. Examples: Gneiss, slate and marble.

Earth's atmosphere - present day

Earth's early atmosphere was probably like Mars and Venus today, consisting of mainly CO₂ with little or no O₂

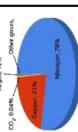
Volcanic activity released the gases that formed our early atmosphere.

Theories about the Earth's atmosphere have changed because of lack of evidence.

Algae and plants produced the oxygen that is now in our atmosphere by photosynthesis.

6CO₂ + 6H₂O — C₂H₁₂O₆ + 6O₂ carbon dioxide water oxygen

The oceans formed as the Earth's temperature cooled, causing rain to fall and the ocean's to form.



Year 9 Topic 3 Chemistry Knowledge Organiser

Tier 2 Vocabulary

Carbon dioxide Rock formation Global warming Theories Evidence

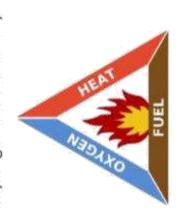
Tier 3 Vocabulary

Combustion
Incomplete combustion
Atmosphere
Sedimentary
Igneous
Metamorphic
Photosynthesis
Volcanic
Greenhouse effect
Pollution
Plate tectonics
Particulates
Global dimming

Complete combustion

Burning – the reaction of a fuel burning with oxygen in the air.

Fuel – can be coal, oil, gas or wood. Hydrocarbon – a fuel which contains the elements hydrogen and carbon only.





Incomplete combustion

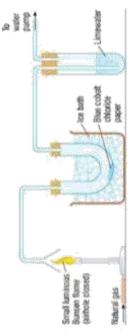
Where combustion (burning) takes place with not enough oxygen.

Products from incomplete combustion are Carbon monoxide (toxic) And Water

If there is very little oxygen the products are: Soot – black particles (cayuse breathing issues)



The Products of Combustion



How does the apparatus show that water is produced? The blue cobalt chloride paper turns pink How does the apparatus show that carbon dioxide is produced? The limewater turns cloudy

Global Warming

Carbon dioxide going into the atmosphere as an environmental impact known as Global warming

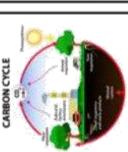
Global warming causes the following:

- Temperatures rise
- Seal levels can rise
- Flooding
- Polar ice caps melt
- Animals lose their habitats
- Extreme weather such as storms



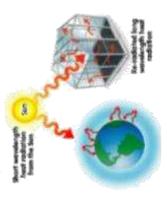
Carbon Cycle:

Carbon is absorbed from the atmosphere by being dissolved into the oceans and by plants photosynthesising. It is released by burning of fossil fuels and respiration.



Greenhouse Effect

Three greenhouse gases are:
Water vapour (H₂O), carbon dioxide (CO₂) and methane (CH₄)



Without the greenhouse effect Earth would be too cold to support life. However humans are increasing the levels of greenhouse gases in the atmosphere which is warming the Earth too much.

Pollution in the atmosphere

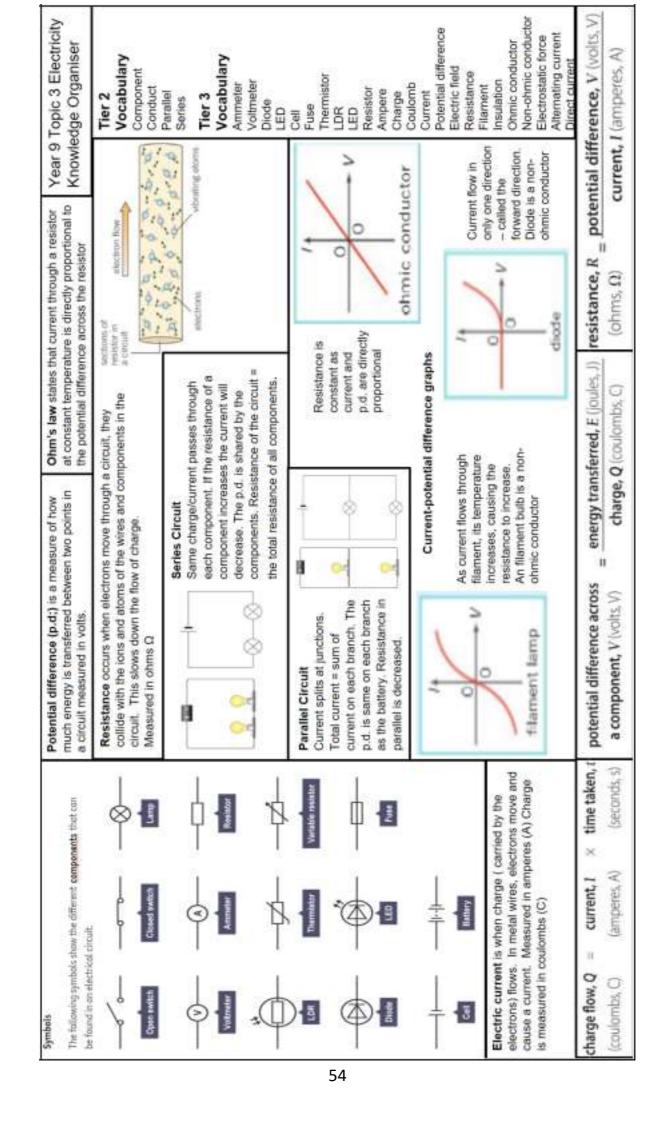
Human activities can increase carbon dioxide in the atmosphere, these are:

- Using fuel for transportation
 - Deforestation
- Burning fossil fuels in power stations.
 Farming and land fill can also increase the levels of methane in the atmosphere.

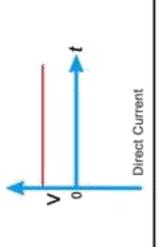
Acid Rain - When fossil fuels are used sulphur dioxide is produced and when dissolved in water in the clouds produces acid rain.

Acid Rain can have a huge impact on lakes, plants and animals.

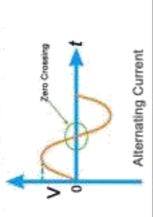
Global dimming – when lots of particulates (soot) go into the atmosphere, reflecting the sunlight back up into space so that less light reaches Earth.



batteries and only flows in one direction. Direct current: (DC) Supplied by



changing direction. UK mains supply is 230V Alternating Current: (AC) Constantly and has a frequency of 50 hertz (Hz)



Circuit Breaker:

automatically operated electrical switches that protect They detect faults and then stop the flow of electricity electrical circuits from overloading or short circuiting. A circuit breaker is a resettable fuse. These are



Cost of Electricity:

Fuse

Neutral wire

Live wire

Earth wire

efectricity is charged per kilowatt hours (kWh) Energy transferred = power x time E – energy (kilowatt hours kWh) P = Power (kilowatt, kW)

Cable grip

9

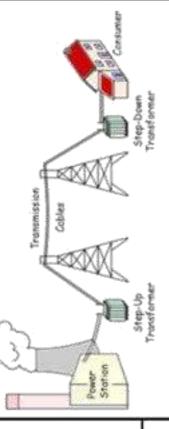
8

Outer insulation

T = time (hours, h)

The National Grid:

How electricity gets from the power station to your homes and businesses



transfer electrical power from the power station to where it is needed. Power stations are able to change the amount to electricity that is The National Grid is a system of cables and transformers. They produced to meet demand.

Step-up transformers - increase the voltage as the electricity flows through the cables.

Step-down transformers - decrease the voltage to make it safe.

Fuses:

Fuses are a safety feature in many They contain a very thin wire plugs and appliances. filament.

When the current gets too high, the wire gets hot and melts breaking the circuit.



Volts

Earth wire is GREEN/YELLOW and always 0

Neutral wire is BLUE and always 0 Volts.

Plugs

Live wire is BROWN and 230 Volts.

Spanish Y9 Summer Term Knowledge Organiser Unit 5: Una aventura en Madrid – Talking about a trip

Mi último día en Madrid	Si	hace buen tiempo/hace mal tiempo	hace frio/hace sol/hace viento	llueve	VOV a	ir de compras/sacar fotos/ver un partido	
Key spellings 5	y will be really useful for	sted on them.	it was incredible	if the weather is good	How much is it?	I'm going to go shopping	I visited the zoo
Key sp	Learn these spellings, they will be really useful for	this unit and you will be tested on them.	1. fue increíble	2. si hace buen tiempo	3. ¿cuánto es?	4. voy a ir de compras	5. visité el zoo

Mi último día en Madrid	My last day in Madrid
Si	If
hace buen tiempo/hace mal tiempo	the weather is good/bad
hace frío/hace sol/hace viento	it's cold/sunny/windy
llueve	it rains
voy a	I'm going to
ir de compras/sacar fotos/ver un partido	go shopping/take photos/see a match

La casa del tesoro	The treasure hunt
¿Adónde hay que ir?	Where do you have to go?
Hay que	You have to
ir al estadio Santiago Bernabéu	go to the Santiago Bernabéu Stadium
ir al parque del Retiro	go to the Retiro Park
visitar el Museo Reina Sofía	go to the Reina Soffa Museum
coger el teleférico	take the cable car
comer	eat
los churros más ricos del mundo	the best churros in the world
comprar una postal de	by a postcard of
dibujar	draw
sacar fotos de	to take photos of
ver	to see
el campo de fútbol más famoso de	the most famous football field in
Madrid	Madrid
el cuadro más famoso de España	the most famous painting in Spain.
el león más feroz del parque	the fiercest lion in the park

Τ	3. An In	3. An infinitive verb (ending in -ar/er-ir)	- ul guipue	ar/er-	(<u>)</u>		
\top	Voy	ir de compras	- Contract	lam	going to g	I am going to go shopping	
Τ	Vas	probar un cocido	ocido	You	are going	You are going to try a stew	
Τ	Va	sacar fotos		(S)he	is going	(S)he is going to take photos	
Τ	Vamos	tomar el sol		We a	re going t	We are going to sunbathe	
Т	Vais	ver un partido	op	You (pl.) are g	You (pl.) are going to watch a match	a match
	Van	visitar el museo	nseo	They	are going	They are going to visit the museum	nsenm
Τ	En la	En la tienda da recuerdos	sopran		2	In the souvenir shop	doys
	¿Qué vas a comprar?	comprar?			What ar	What are you going to buy?	5 buy?
Т	¿Qué quiere usted?	s usted?			What do	What do you want?	
	Quiero (con	Quiero (comprar) algo para mi	ara mi		I want (t	I want (to buy) something for my	hing for my
	(madre).				(mnm)	t;	
	Creo que vo	Creo que voy a comprar			I think I'	I think I'm going to buy	Kr
_	un abanico	un collar	un llavero		a fan	a necklace	a keyring
Τ	una taza	un imán	una camiseta	eta	a mug	a magnet	A t-shirt
Τ	una figurita	turrón			a figurine	nougat	at
Τ	Me gusta	Me gustapero prefiero			l likeb	l likebut I prefer	
Τ	Es	**			It is		
Τ	barato/a	caro/a	bonito/a		cheap	expensive	pretty
Т	típico	feo/a	útil		typical	ngly	useful
	precioso/a	demasiado caro/a	caro/a		lovely	too expensive	Ф
Τ	¿Cuánto es?	5			How much is it?	ch is it?	
Τ	Soneuros	832			It iseuros	ros	
Τ	No, gracias				No, thanks.	ıks.	
Τ		4: - 1:2: -				A. L. C.	

os monumentos más interesantes de

Madrid

Mi día favorito fue (el martes)

Mi día favorito

visité/visitamos el parque de atracciones

Fue increible/divertido/flipante

¡Qué miedo/rico/guay!

monté/montamos en una montaña rusa

saqué/sacamos fotos vi/vimos los delfines

hice/hicimos muchas cosas fui/fuimos a la cafetería

comí/comimos un bocadillo de calamares

bebi/bebimos horchata Por la mañana/tarde

compré/compramos una gorra

200				0000			
	The treasure hunt		Key	Key grammar - The near future	The near	future	
Ž	Where do you have to go?	Use the neg	Use the near future to talk about what is going to happen	s about what	is going to h	lappen	
Ϋ́	You have to	i					173
g	go to the Santiago Bernabéu Stadium	This tense	s tormed by 3	parts, make	sure you ha	This tense is formed by 3 parts, make sure you have all of them to use it	o use It
go	go to the Retiro Park	correctly.					
go	go to the Reina Sofía Museum	1.70	4	7, 24, 01 to	(0 0 d		
tak	take the cable car	- 577	The present tense of the verb to go)	י סו וא (ווופ אב	(of on all		
eat		2. c	a An infinitive york (enging in arler in)	ro di pdipdo	(or ir)		
the	the best churros in the world		ir do como	ellullig III -all	el-II)	Saidacho On	
by	by a postcard of	, voy	n de complas	0,0	alli goling to g	Value and Applied to the popular	
dra	draw	0		ocido	ou are going	Tou are going to ity a stew	
tot	to take photos of	Na Na Na Na Na Na Na Na Na Na Na Na Na N			orie is going	(S)rie is going to take photos	
to	to see	Vallios	IOI III EI SOI		e ale going	we are going to sumanie	
tho	the most famous football field in	Vais	ver un partido		ou (pl.) are g	You (pl.) are going to watch a match	a match
2 2	mentions loctoring in Madrid	Van	visitar el museo		ney are goin	They are going to visit the museum	nsenm
the	the most famous painting in Spain.	En la	En la tienda da recuerdos	cuerdos	_	In the souvenir shop	doys
the	the fiercest lion in the park	¿Qué vas	¿Qué vas a comprar?		What ar	What are you going to buy?	o buy?
the	the most interesting monuments in	¿Qué quiere usted?	re usted?		What do	What do you want?	
Ma	Madrid	Quiero (co	Quiero (comprar) algo para mi	ara mi	I want (1	I want (to buy) something for	hing for
	My favourite day	(madre).			(mnm)		
		Creo que v	Creo que voy a comprar	r	I think I	I think I'm going to buy	ny
	In the morning/afternoon	un abanico	un collar	un Ilavero	a fan	a necklace	a keyrin
	I/we drank horchata	una taza	un imán	una camiseta	a a mug	a magnet	A t-shirt
es	I/we ate a fried squid sandwich	una figurita	turrón		a figurine	e nougat	at
	I/we bought a cap	Me gusta	Me gustapero prefiero		l likeb	l likebut I prefer	
	I/we went to the café	Es			It is		
	I/we did many things	barato/a	caro/a	bonito/a	cheap	expensive	pretty
	I/we rode on a rollercoaster	típico	feo/a	útil	typical	ngly	nseful
	I/we took photos	precioso/a	demasiado caro/a	caro/a	lovely	too expensive	ө
	I/we saw the dolphins	¿Cuánto es?	s?		How mr	How much is it?	
S	I/we visited the theme park	Soneuros	S		It iseuros	ros	
	It was incredible/fun/awesome	No, gracias			No, thanks	nks.	
	How scary/tasty/cool!	Perfecto, gracias	racias		Perfect,	Perfect, thanks	

Spanish Y9 Summer Term Knowledge Organiser Unit 6: Repaso y habilidades claves - Revision and key skills

Key spellings 6

useful for this unit and you will be tested Learn these spellings, they will be really

0

2000/08/2 CHOCOGGGGGGGGG	afterwards	furthermore	I think that	for example	however
OI GIGHT.	 después 	2. además	3. creo que	por ejemplo	sin embargo

Writing skills

- Use connectives like y (and), pero (but), también (also) and además (furthermore) to extend your sentences, link them together and make them more interesting O
- Use sequencers to organise your writing: primero (first), luego (then), después (afterwards), más tarde
- Remember to add your opinions using phrases like me gusta (I like), and no me gusta (I don't like). Don't forget to justify your opinions using porque... (because...).
- Add adverbs of frequency to your work like todos los días (every day) and a veces (sometimes).

Listening skills

- When taking notes as you listen, try to write down key 0
- Where?) will help you answer questions when listening. Focusing on the five Ws (Where? Who? What? When? o
- Predicting what you are going to hear is a very useful skill. 0
- Sometimes speakers don't say exactly what they are talking about and you have to work it out from clues. 0
- Use TRAPS (below) to help you pick out important details. 0

Remembering TRAPS will help you to

listen out for important detail:

think / believe that (in order) to, for so, therefore yesterday last night however where today sin embargo creo que por eso Palabras may traggerates High-frequency words anoche donde ahora para ayer hoy almost, nearly each, every afterwards in general a lot (of) finally then first todo / toda / todos / todas muchos / muchas mucho / mucha / por lo general finalmente después primero obeni

Reading skills

- It's a good idea to start by skimming a text and reading for gist, without trying to understand all the details. ò
- You don't need to understand every word in a text, scan it for the specific information you need. o
- This means that you don't need to look up every word. Ask yourself if you need to know what a word means to answer the question. If you do, look it up. If not, move on. 0

To understand when something happens,

S = Subject (person involved)

A = Atternative words/synonyms

R = Reflect, don't Rush! T = Tense/Time frame

P = Positive or negative?

e.g. el fin de semana que viene, but also

for verb forms. Are speakers using the

present or the near future tense?

T is important. Listen for time markers,

Use the four Cs to understand a text in more detail and to try to work out the meaning of new words. O

Using the four Cs when

understand the detail of a text. To work out the meaning of new words, use the four Cs! Sometimes you have to reading for detail

- o Clues (e.g. questions in English)
- Cognates and near-cognates
- Context of the sentence/text Common sense:

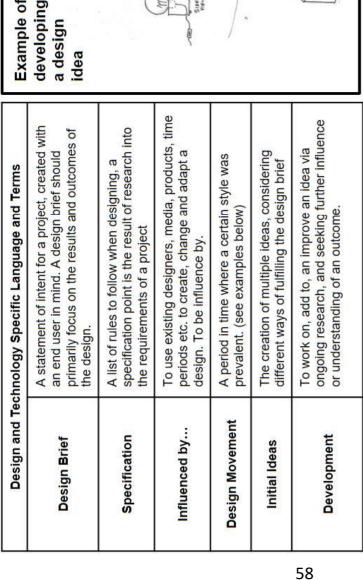
Speaking skills

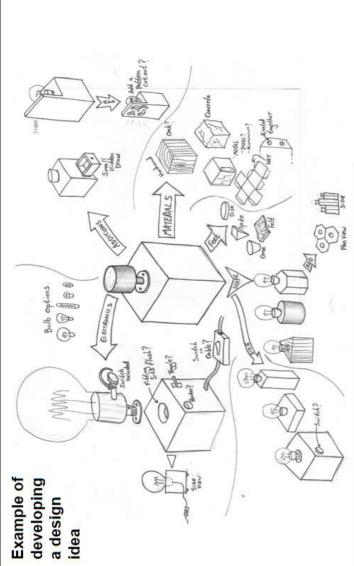
- Use the advice in the writing skills box to make your spoken sentences more interesting and extended. o
- Learn Spanish question words to help you understand what is being asked of you. 0
- If you don't understand a question, say "repite, por favor". 0
- Practise the pronunciation of difficult words and use intonation in your voice to match the tone of what you're saying. 0

Pay close attention to the question words when translating questions. At what time? With whom? Who? Why ¿A qué hora? Question words Con quién? ¿Por qué? Quijen? Which/What? How/What? Where? What? Cuándo? ¿Donde? Cómo? ¿Cuál? ¿gnę;

Year 9 – Knowledge Organiser

Design & Technology – DESIGN





DESIGN MOVEMENTS

Design Movements Timeline

Design movements are periods in time where a certain style of design was

Organic design is a style of product design which takes as its starting point organic, flowing natural forms. Undulating lines, dynamic curves, and powerful arches stand in contrast to the geometric, functional style as represented by prevalent, It's important to know about these movements as they provide a starting point to base your product on or just provide inspiration.



Organic Design 1930-1960 & 1990-Present

Streamlining 1930-1950

Bauhaus 1920-1934 Surrealism 1925-1930

Futurism 1910-1945 Art Deco 1910-1940

Andernism 1880-1940

Art Nouveau 1880-1910

Arts and Crafts Movement 1850-1915

Scandinavian Modern 1935-Present

Art Deco is a style of architecture and design that first appeared in France just before World War I. Art Deco influenced the design of buildings, furniture, jewellery, fashion, transport, and everyday objects.



An Initial ideas page

Postmodernism is one of the most controversial movements in art and design history. Over two decades, Postmodernism shattered established ideas about art and design, bringing a new self-awareness about style itself.





dernism 1978-Pre Aemphis 1981-1984

ism 1967-1978

Space Age 1960-1969 Pop Art 1958-1972 ontomporary1945-1960

Design & Technology – DESIGN Year 9 - Knowledge Organiser

Orthographic Drawing Oblique Drawing **Working Drawing Isometric Drawings** An accurate drawing providing all information required to make a product. Usually presented as an isometric or orthographic An isometric drawing is a type of 3D drawing that is set out using 30-degree angles. It's a type of drawing in which the same scale is used for every axis, resulting in a non-A item is drawn in 2D in the correct proportions, it is then forced into 3D by projecting lines out at 45 degrees. Goes with a working drawing and breaks a design down into its 2D drawings drawn in detail and to scale. Orthographic projections provide 3 views, front, side and plan. individual parts, stating what it is to be made from and the Design and Technology Specific Language and Terms quantity required of each part Computer Aided Design distorted image. drawing. Orthographic Drawings **Isometric Drawing** Working Drawing **Oblique Drawing** Parts List CAD

Year 9 - Knowledge Organiser

Design & Technology - TOOLS/MACHINERY

/H	HAND TOOLS	OLS	MACHINERY	ERY		CUT	CUTTING
	4	Bench Hook	Milling machine	Removes material a thin layer at a time Can be used to ensure an absolutely flat surface. Very accurate		Scroll Saw (Hegner)	Thin blade allows for intricate curves to be cut in timber a plastic sheet material
		Coping Saw (timber/plastic)		Used to 'turn' material (rotates) A fool or bit is used to		P100 P200	Spinning cutting tool removes wood as in is move along a
6)	9	Tennon Saw (timber)	Lathe	shape the rotating material There are wood and engineers (metal) lathes		Router	surface Used to create slots, grooves or fancy edges
	P	Hacksaw (metal)	Buffer / Polisher	Used to polish metal or plastics to a high shine		Jigsaw	Used to make straight or curved cuts in all materials Blades and speed can be
60	Guedin				1		changed to suit material
	T	G Clamp	Disc	Rotating abrasive disc removes material		Dandeam	Blade is one continuous flexible loop
		Woodwork	Sander	Used for timber and plastics		A 200	blades can be changed to cut plastics Can cut straight or curved lines
		Vice		Used to apply heat along an area of thermoforming			Circular blade rotates through
· O	1	Hand Clamp	Strip Heater	plastic allowing it to be bend along a line • Process is called line bending	Saw boots	Table Saw	Used to make straight cuts only Mainly used to cut boards to size
	4			A rotating drill bit can be			Can be used for multiple thin
		Glass Paper	Pillar Drill	lowered into a work piece to create holes Work musk be secured to the table.	W.	Cutter	materials Requires designs to be created on a computer first

		Plas	Plastics				Timber	
	Type	Example of	Advantages	Disadvantages	Type	Example of	Advantages	Disadvantages
	Acrylic	Thermo-formin g (shaped with heat)	Available in many colours and styles Weather proof Can be laser cut	Brittle Scratches easily Made from oil - unsustainable	Pine	poompos	Cheaper More sustainable as faster growing Widely Available	Knotty Can be weaker than hardwoods Less durable
	Epoxy Resin	Thermo-Settin g (Can only shape once)	Hard wearing Can be mixed with pigments/powders to create effects Will not burn	Non recyclable Gives off fumes Made from oil - unsustainable	Oak	Hardwood	Good aesthefic Extremely durable	Generally harder to
		Me	Metals		Mahogany		Easy to maintain High strength	Less sustainable as slower growth rate
6	Type	Example of	Advantages	Disadvantages		Hardwood		
1	Steel	Ferrous	Relatively cheap Widely available	Rusts Regulfes a surface				
		(Contains Iron)	Strang/Tough	finish	Plywood		Available in large	And the second s
	Aluminium	Non-Ferrous (Does not contain iron)	Does not rust Lightweight Easy to cut and shape	Relatively expensive	and the second	Manufactured Board	Good strength and durability Can be laser cut	other board options Edges can splinter
	Copper	Non-Ferrous (Does not contain iron)	Good conductor of heat and electricity	Corrodes Relatively expensive				
	Pewfer	Alloy (Mix of multiple metals)	Does not rust Low melting point for easy casting Polishes to a high shine	Relatively expensive Heavier than alternatives	3D Printing uses PLA PVC plastic on a ree is heated and used to a thin layer at a time	3D Printing uses PLA or PVC plastic on a reel. This is heated and used to print a thin layer at a time		

Year 9 – Knowledge Organiser

Design & Technology - PROCESSES / H&S

any given situation. From sitting at a computer risk to health, this could be training, following machinery or fume extraction when gluing or measure put in place to minimize or remove Once cooled it can be removed and any seems Used to cast metals or thermoforming plastics person/s carrying out a task, and all control Anything to do with a person's wellbeing in Material is melted and pours into a mould for long periods to operating machinery. A document that considers all risk to a Design and Technology Specific Language and Terms Googles, aprons, dusk masks, gloves Can be dust extraction when using Personal Protective Equipment tidied up certain rules or using PPE Health & Safety Casting Die Casting Risk Assessment Health and Safety Extraction PPE All air is sucked out creating a vacuum, pulling the Tool steel moulds have the negative shape within A thermoforming sheet or film (usually HIPs) is Used to create items like; plastic buckets and cast in pewter Moulded plastic then cools and becomes rigid clamped above the bed and heated until soft Two leaves A mould is placed onto the vacuum bed Molten material is forced into a mould Bed is lift into the heated plastic plastic over the mould school chairs Flat sheet material is marked Thin strips are glued together A heating element softens a shape and held in place until Used to shape aluminium up and bent one fold at a This can then be bent to Woods can be bent by thermoforming plastic Process is called Line (acrylic) along a line. Joins can be riveted. soldered, brazed etc laminating Bending Shaping Plastics **Bending Materials** Moulding Forming Vacuum Injection Sheet metal Strip Heater

Thermosetting plastics are mould by mixing two

and held in a jig to keep them

Lamination

in the desired shape.

Once set the item is removed

from the jig and trimmed to

part which set through a chemical reaction.

Often referred to as Resin

Year 9 - Knowledge Organiser

Design & Technology - CAM

COMPUTER AIDED MANUFACTURE



dvantages	Disadvantages
Accurate to low tolerances	Expensive to set up
λuick – rapid prototyping	Requires Specialist Training
Aultiples can be produced easily	Job loss to automation



Interlocking laser cut toy in plywood

Materials suitable for laser cutting: Acrylic - Thermoforming Plastic



Printing

30

Plywood - Manufactured Board

Card/Paper - Paper/Board

Felt - Fabric

Acrylic

MDF - Manufactured Board

Sticky back vinyl cut to shape

Stickers

Viny



Felt

Some materials such as glass engraved but not cut. can be

Plywood





3D printer using thin layers to create a 3D shape



Laser moves quickly at a low power Black = Laser engrave = Laser cut

Laser moves slowly at high power

