Year 9 Knowledge Organiser

Spring Term 2021/22

Name: Form:



Core British Values

- unacceptable to dismiss the beliefs and opinions of I recognise that it is anyone.
- I understand that discussions about sensitive issues will be controlled and structured.
- Tolerance
 - responsible for my learning I recognise that I am as as my teacher.
- I take responsibility for all of

Responsibility

- to promote and protect the We all have a responsibility my actions - good or bad.
- wellbeing of others.
- 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

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

Liberty

I recognise that everyone is long as it does not promote entitled to their opinion as extremism.

Respect

I understand that everyone is entitled to a voice within the classroom.

Law

would like to be listened to. I will listen to others as I



Social - Moral - Spiritual - Cultural



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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

Flashcards

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/

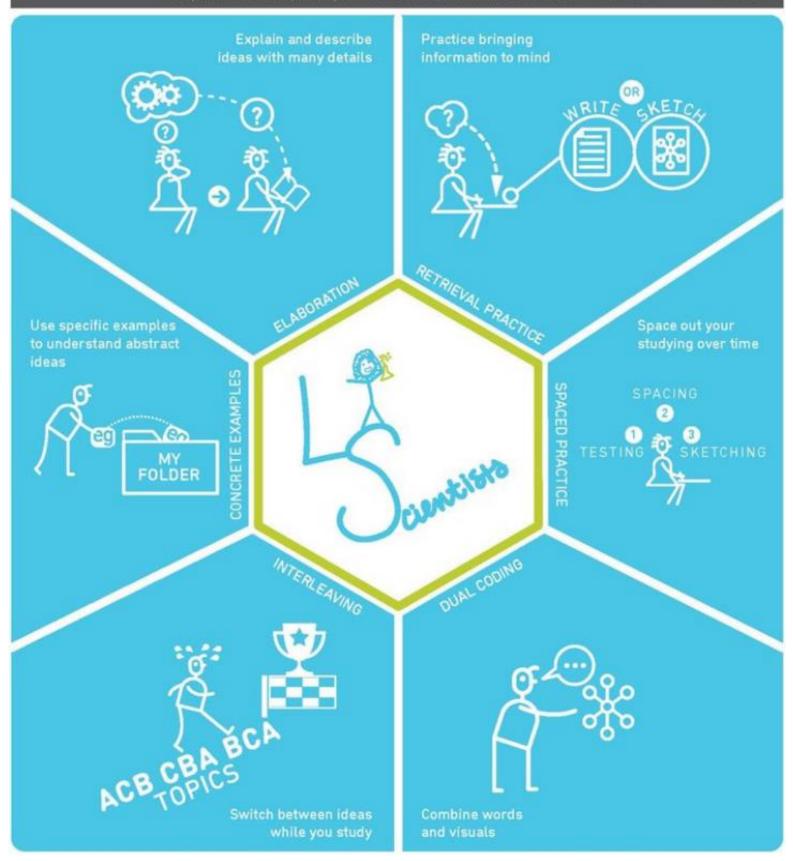


Six Strategies for Effective Learning

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 fresh.

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TRY IT NOW

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

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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.

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can from

memory.





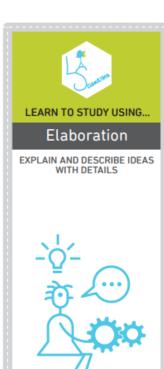
HOW TO DO IT

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.

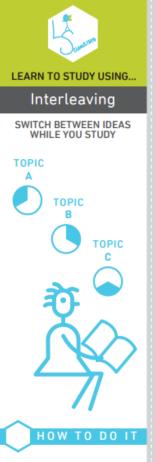
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TRY IT NOW

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

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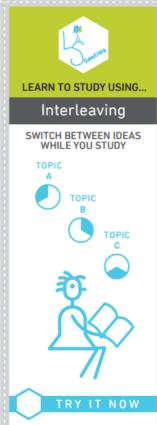


Switch between ideas during a study session. Don't study one idea for too long.

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

Make links between different ideas as you switch between them.

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

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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.

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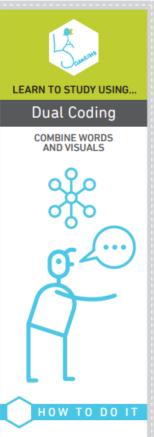




TRY IT NOW

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

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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.

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

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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			<u>-</u>
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			
Tuesday			
Wednesday			
Thursday			
Friday			
Week 14	Subject 1	Subject 2	Signed
Monday			
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.

Tue Wed T	Thu Fri Sa	Sat Sun	Book(s) read (title and author)	Total time spent reading	Parent/Guardian /Staff signature

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
80										
6										
10										
11										
12										
13										
14										

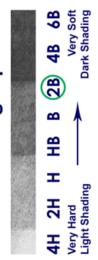
Art - Observational Drawing - Pencil & Biro:

complicated as that. It can be a flower, a person, a still life, a landscape, Observational drawing is drawing what you see. It's as simple and as whatever. But it's drawing what you see in front of you as realistically and as true to life as possible.

		Art Specific Language and Terms	ge and Terms	
	Tone	The lightness or darkness of something.	Hatching	Closely drawn parallel lines to create tone.
	Tonal Gradation	A visual technique of gradually transitioning from one colour/hue to another, or from one shade to another, or one texture to another.	Scaling up	A precise way to transfer and enlarge a small image.
14	Depth	Refers to making objects appear closer or further away and making a two-dimensional image seem three-dimensional.	Primary Source	Working from real life, a primary source is something that was created at the time of an event or by someone who was at an event or moment.
	Proportion	The size relationship between different elements e.g height compared to width.	Negative shape	The empty or unfilled areas of a piece of artwork.
	Composition	Where you place objects on the page.	Accuracy	The extent to which one piece of work looks like another.

Choose the right pencil:

Examples of Biro/Pen Artists:







Enam Bosokah





Shohei Otomo

Art - Pattern within Art:

natural and man-made patterns can be regular or irregular, organic or geometric, structural There are two basic types of pattern in art: Natural Pattern and Man-Made Pattern. Both or decorative, positive or negative and repeating or random.

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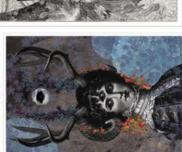
Drypoint printing (etching)	Drypoint is a printmaking technique of the intaglio family, in which an image is scratched into a plate with a hard-pointed "needle" of sharp metal tool. Ink is then rubbed onto the surface, excess ink removed, before printing onto damp paper using a printing press.	Mandala	A mandala is a geometric configuration of symbols or patterns often in a circular shape. Mandalas have different significance depending on the religion they relate to.
Printing Press	A printing press is a device for applying pressure to an inked surface, therefore allowing the ink to transfer to the paper.	Islamic Art	Islamic art encompasses the visual arts produced in the Islamic world, including architectural art and pattern.

Dan Hillier:

A London based contemporary artist who makes collages, screen prints and ink drawings using a mixture of found imagery and his own imaginings. His work is born out of a passion for line work and collage, a love of archaic imagery and an urge to produce pictures that provoke humour, wonder and a certain subconscious recognition in the viewer.



Field



Temple of the way of light





Luna

Y9 CITIZENSHIP

Advocate

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

Lobbying

ocal MP to raise an issue. This is done verbally, but it can be House of Commons. Often it Citizens approaching their is done in the lobby of the in writing.

Boycott

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

E-Petition

collecting signatures online to show your support or concern A form of campaigning; for a particular issue.

E-Campaigning

internet. Methods used might include e-mails, e-petitions and use of social media. Campaigning using the

Political Literacy

Knowledge of politics and how democracy works.

Did you KNOWS How can you link different topics together?

Making connections

Advocate + Pressure group + Campaigning

Campaigning + Petition

Lobbying + MPs + Parliament + Advocate

Political literacy + Campaigning

Suffragettes + voting + campaigning

This is how many signatures a petition needs in order to get a response from the Government.



獵



$\frac{100,000}{100}$

for debate in Parliament. needs to be considered signatures a petition This is how many

Campaigning The process of people joining together to take action. They will





Spring Term



INTERNATIONAL **AMNES**

challenge the people in power to make decisions which co-inside with their core beliefs.

Direct Action

environment. They do so by putting

people who have the power to pressure on different groups of

make change.

create a change about a specific

issue e.g. Human Rights or the

A group of people who aim to

Pressure Group

bring an issue to the attention of Methods could include a march protest or campaigning used to An active and upfront form of a particular target group and the general public. or a sit-in.

Indirect Action More casual/discrete

Anyone can start a petition in the UK, this means young people are likely to sign them because they are unable to leaflets or petitioning.

writing, making and distributing campaigning, often by letter vote about issues they are concerned about until they are at least 18. Signing or starting a petition is a good form of political engagement! Direct Action Positives Can reach out to a lot of people easily



Direct Action Negatives Can cause disruption

Indirect Action Negatives Easy to ignore e.g. posters, emails etc.

16

Y9 CITIZENSHIP



Pressure Groups

CASE STUDIES Stop the War Coalition



Spring Term

Key Facts

Key Facts

The Suffragettes

Aims to prevent and end war everywhere, and to stop unnecessary use of weapons.

Established in 2001 to campaign against war in Afghanistan and Iraq.

Example of action taken Stop the War marches 2003

- Held a march to demonstrate
- One of the biggest marches in UK history
- Over 1 million people were thought to have attended
- Part of a world-wide series of marches which also took place in places like Tokyo & Sydney
- The UK and the US, along with some support from other countries, invaded Iraq.

Example of action taken Conflict in Syria 2013

- Military action in Syria didn't go ahead from the UK
- A range of action was taken demonstrations, marches, rallies etc. took place to show discontent with invading Syria
 - MP's voted against the government regarding invading
- The PM wanted to invade Syria based on potential chemical weapons
- Stop the War took this as a victory as the invasion didn't go ahead.

Aimed to gain equal voting rights for all women

The WSPU were established in 1903 and campaigned until all women were free and equal to vote in 1928.

Examples of action taken

Parliament rejected every bill to give women the vote. Male members held strong views about the weakness of women which they believed wouldn't allow women to vote.

As part of their protests they let off bombs, smashed shop windows and set fire to churches - which meant they weren't popular with everyone. Many thousands of men and women all over the country were involved in the movement.

They also...

Disrupted Parliament, chained themselves to railings, held huge, marches and demonstrations, attacked politicians, set post-boxes on fire, slashed paintings and went on hunger strike when they were arrested.

In 1918, the Representation of the People Act gave the vote to all men over the age of 21 and women over the age of 30 who were householders or married to a householder.

In 1928, women over the age of 21 were given the same voting rights as men.

Computer Science – Database

	OR	erson.		lean	S. Low-Mailely Nor-Wailely Nor	N Leptinson	table. DATABASE		d is sensible and VALIDATION	ource.	cific criteria	quired if the	QUERY	onship with	base to letters REPORT
A database is a collection of information that is organized so that it can be easily accessed, managed and updated	Single item of data about a single record in a database.	Collection of fields that represent a single entity, such as a person.	In databases, a collection of records representing a type of item.	Text e.g. S Jones, Number e.g. 4,6, Currency e.g. £3.00, Boolean e.g. True/False Yes/No, Date e.g. 12/12/2012	A Database where all of your data is stored in one large table.	Database containing multiple related tables.	Field which contains a different value for every record in that table.	It uniquely identifies a record.	Using the computer to check to ensure that the data entered is sensible and reasonable.	Checks that the data entered exactly matches the original source.	Method of searching data from a database that matches specific criteria	Forms are used to enter data into a database. This is only required if the database needs a user to enter data.	A database report is a report created from a culmination of queried data visualized for the purposes of analysis and decision-making.	Database field whose sole purpose is to form part of a relationship with another table.	The automatic addition of names and addresses from a database to letters and envelopes
Database	Field	Record	Database Table	Data Types	Flat file database	Relational Database	Key field	Primary Key	Validation	Verification	Queries	Forms	Report	Foreign key	Mail merge

Computer Science – Python Keywords

Arrays	A static (fixed size) data structure (a storage format), which can store multiple items of data, of the same datatype, under a single identifier (name) E.G. Array = [1, 2, 3, 4, 5]
Element	A section in an array or list that can store one piece of data.
1D Array	An array, which contains a single list of data items, each being identifiable using a single number index. Think of this like a single row in Excel.
2D Array	An array, which contains multiple lists of data items, each being identifiable using an index made up of two numbers, one to identify the Array and the other to identify the element within that array. Think of this like a Spreadsheet in Excel
Index 0 v Position 1	The first element in an array is obviously Poistion1, however, the Computer considers it index 0. Position 2, therefore, is index 1, and so on.
Python List	A Python List is similar to an array, it is, however, more flexible. Python Lists can store data of any type at the same time. E.G. List = [1, "two", 3.0]
Add an element to a list	Python lists are Dynamic. We can add elements to them using: List.append(data) # Add the data item to the end of the existing list. List.insert(index, data) # Inserts the data into the list at a given index. (Position)
Remove an element from a list	Python lists are Dynamic. We can delete elements from them using: List.remove(data) # searches for the first instance of data specified and removes it. List.pop(index) # returns and data and deletes the element at the given location.
Sort/reverse a list	Python list can easily be sorted or reversed using: list.sort() and list.reverse()
Algorithm	A set of steps/instructions needed to complete a complex software task.
A Pass	A pass is one iteration of an algorithm (that contains a loop)
Divide and Conquer	The list is repeatedly divided into two halves, with the half without the search criteria being discarded, until all elements have been checked or the search item is found.
Flags	Normally a Boolean variable, called a truth bit. It is used a reference (flag) to see if something has changed during the last iteration of an algorithm.
Pointers	Are normally an Integer variables used to point to parts of an array or list. Normally the lowest point, mid point and end po int. They are used to keep track of where you are at.
Linear Search	A sequential method of searching for an item in a dataset. This is done by systematically checking each item in order until the every element has been checked or item is found.
Binary Search	A method of searching for an item in a sorted dataset. It compares the middle element within the search criteria, discards the half that does not include the search criteria, repeatedly until the item is found. If the midpoint falls between two elements, the right is always chosen.
Bubble Sort	A method of sorting a set of data by repeatedly comparing data items with previous items in a dataset, before inserting them into the correct position.
Insertion Sort	A method of sorting a set of data by repeatedly comparing data items with previous items in a dataset, before inserting them into the correct position.
Merge Sort	A method of sorting a set of data by splitting the dataset up into its individual items and then continually pairing items from the dataset in order until the entire dataset has been ordered. If the midpoint falls between two elements, the left side gets the extra.

Year 9 Dance Knowledge Organiser: Movement Components

Actions

What a dancer does, eg travelling, stillness, use of body parts, floorwork and the transference of turning, elevation, gesture,

Categories:

- Travel
- Turn
- Elevation
- Gesture Stillness
- Use of different body
- Floor work

parts

Transfer of weight

Examples:

- Roll
- Leap
- Walk
- **Pirouette** Hi-five

Space

The 'where' of movement such as shapes, designs and patterns. levels, directions, pathways,

Categories:

- traced in space (on the Pathways: designs floor or in the air).
- Levels: distance from the ground.
- Directions: the facing of a movement.
- Size of movement
- Patterns
- Spatial design

Examples:

- Forward
- Low level
- Circular pathway

Dynamics

upon variations in speed, strength The qualities of movement based

Categories:

- Fast/slow
- Sudden/sustained
- Acceleration/ deceleration
- Strong/light
- Direct/indirect
- Flowing/abrupt

Examples:

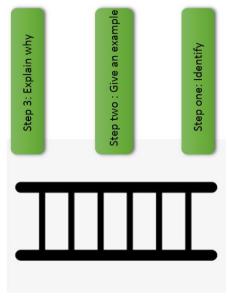
- Strong
- Soft
- Smooth Sharp
- Fluent
- Jerky
- Robotic

Relationships

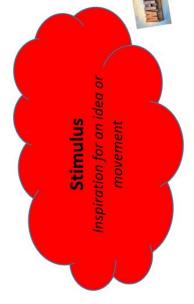
The ways in which dancers interact; the connections between dancers.

- Lead and follow: one dancer is in front of another dancer and taking them around
- Mirroring: when dancers imitate each other facing one another
- dancer 1 punches dancer 2 and dancer 2 dancer moves in consequence to it. E.g. performs a movement and another Action and reaction: one dancer
- Accumulation: when a dancer performs a series of movements and others join in at different times until all perform in
- shapes that are similar to but not exactly Complementary: to perform actions or the same as another dancer's.
 - Contrast: movements or shapes that have nothing in common.
- Counterpoint: when dancers perform different phrases simultaneously
 - Contact: to touch another dancer
- Formations: shapes or patterns created in space by dancers

Year 9 Dance Knowledge Organiser: Choreography Part 1



analyse choreography and create Using movement components to a hypothetical choreography



An example using actions:

(Step three): I choreographed this to show that an explosion had occurred and the Step two) The dancer jumped in parallel facing the front and landed on the floor. Step one) I used the action of a jump in my choreography about war. dancer jumped in shock.

An example using space:

(Step two) Five dancers walk from upstage to downstage in a linear pathway then turn 90 degrees to the right to salute another solo dancer (the officer) standing downstage Step one) I used the pathways to show the theme of war in my choreography.

(Step three): I choreographed this to show that the armed forces usually walk in straight uniformed lines and that there is normally an officer in charge. They were separated in the space to show different hierarchies.

What could your dance be about?







Reflection?

For example: Dancer 1 stands centre stage Describe an opening for your dynamics and relationships. dance using actions, space,

(space). They walk (action) forward left

Dancer 2 repeats this movement 2 counts then right (space) into parallel and crouch after dancer 1 following behind them in the space. (This shows a lead and follow (action) quickly (dynamics) to the floor.



Concealment? Protection? New beginnings?

Emotional break down?

Not showing your true

self?

Loneliness?

Confinement?

Restrictions and limitations?

Finding peace?

Drama

Absurdism V.s. Gothic

Key Characteristics of Absurdist theatre include:

Key Characteristics of Gothic theatre include:

random lines that have no connected Non- sense dialogue: a series of

Repetitive or meaningless action.

Set is minimal and limited,

Design Elements

focus needs to be on the

ideas and symbolism

within the play.

Sound and lighting has

a dream like quality.

Costume is usually

contemporary as

Non-realistic or impossible plots.

Using illogical situations.

Unconventional dialogue.

Minimal plots to express the apparent absurdity of human characteristics.

Explanation

Vocabulary Dialogue

Key

time period doesn't

necessarily matter

to create a mysterious and Sound and lighting is used eerie atmosphere that is Costume is time specific designed to scare the audience and build haunted houses. tension.

to the play.

Key Vocabulary	Explanation
Horror	A story in which very frightening and unnatural things happen
Gothic villain	Usually male, often extremely handsome, intelligent, successful, talented, and/or charming, although there is usually some tell tale warning sign to warn us that his looks are deceiving.
Mystery	Something strange or not known that has not yet been explained or understood
Suspense	The feeling of excitement or nervous ness that you have when you are waiting for something to happen and are uncertain about what it is going to be.

Explanation	A story in which very frightening and unnatural things happen	Usually male, often extremely handsome, intelligent, successful, talented, and/or charming, although there is usually some tell tale warning sign to warn us that his looks are deceiving.	Something strange or not known that has not yet been explained or understood	The feeling of excitement or nervous ness that you have when you are waiting for something to happen and are uncertain about
Key Vocabulary	Horror	Gothic	Mystery	Suspense

interrelated sequence. Often absurdist

presented by the writer as an or similar work, devised and

plots will have mysteries that never

get solved.

absurdist plays the character will ask

nuge philosophical questions.

A person in a novel, play, or film. In

Characters

complete disorder and confusion.

Sense of

Sayings and opinion that are overused

Clichés

Plot

Word that are spoken, in absurdist

theatre this is often used in a

repetitive way.

and betrays a lack of original thought. the main events of a play, novel, film,

Set design will dwarf the architecture, castles and **Design Elements** characters, mysterious Supernatural beings or monsters (ghosts, vampires, zombies, giants). Gloomy, decaying setting. Curses or prophecies. Damsels in distress. Intense emotions. Romance. Heroes.

> The Theatre of the Absurd was created in the post war era of 1950s, it was a label given to communication breaks down. The structure of the plays is typically a round shape, with the <u>many plays of absurdist fiction written by a number of primarily European playwrights. It is </u> existence and express what happens when human existence lacks meaning or purpose and also a term for the style of theatre the plays represent. The plays focus largely on ideas of finishing point the same as the starting point. Logical construction and argument give way to irrational and illogical speech and to the ultimate conclusion—silence.

which is largely known by the subgenre of Gothic horror, is a genre or mode of plays and mystery, etc. and arose in England roughly between 1789 and 1832. Gothic theatre, Gothic theatre is a type of genre for plays, just like we have comedy, romance or film that combines fiction and horror, death, and at times romance.

describe on this picture- what are the

Drama - Social Media



What is Social Media?

Websites and applications that enable users to create and share content or to participate in social networking.

Why was Social Media invented?

Social media was invented to allows people to communicate and share information using the internet and now mobile phones too. Some forms of social media are: Pictures -Videos - Texts - Tweets - Posts - Snaps - Music - Voice - Stream -Views - Likes - Links - TikTok

	Drama	Drama Techniques	Physicals	ils Skills	Vocal Skills	ls
	Vocabulary	Definition	Vocabulary	Definition	Vocabulary	Definition
	Monologue	A speech of some duration addressed by a character to another character(s) on stage.	Body Language	How an actor uses their body to communicate meaning. For example,	Projection	Ensuring your voice is loud and clear for the audience to hear.
		their thoughts aloud).		crossing your arms could mean you are fed up.	Volume	How loudly or quietly you say something. (shouting, whispering)
23	Duologue	A speech between two characters on stage.	Posture	The position an actor holds their body when sitting or standing. For example, an upright posture	Tone	The way you say something in order to communicate your emotions. (E.g. angry, worried, shocked tone of voice)
	Dialogue	The dramatic name for a simple spoken				
)	conversation where two or more	Gait	The way an actor walks.	Pace	The speed of what you say.
		characters speak with one another.			Pause	Moments of pause can create tension, or
			Facial	A form of non-verbal communication		show that you are thinking.
	Split Stage	The stage area is split into two or more areas and each area represents a different	Expressions	that expresses the way you are feeling, using the face.	Accent	Use of an accent tells the audience where your character is from.
	:		Gestures	A movement of part of the body,	Pitch	How high or low your voice is.
	Flashback/Flash Forward	A flashback or flash forward is an interjected scene that takes the narrative back or forward in time from the current		especially a hand or the head, to express an idea or meaning.	Emphasis	Changing the way a word or part of a sentence is said, in order to emphasise it. (make it stand
		point in the story.	Stance	The way you position yourself when		out.) Try emphasising the words in capital
	Montage	A series of short scenes are sequenced to condense space, time, and information.		standing to communicate your role. An elderly person would have a different stance to a child		letters and see how it changes the meaning: "How could YOU do that?" and "How could you do THAT?"



Year 9, Autumn Term: Structure

Core Text: Heroes (Robert Cormier)

structure of a story; however, the writer needs to decide on the best order in which to tell the story. Overall, the structure of the text will shape the reader's response to the plot and the characters. Structure refers to the organisation of information, ideas or events in a text. There is a standard

Vocabulary

Words to talk about Words to talk about the structure of the sentence structure

whole text

- tense (present/past)
 structure: linear/non compound sentence
 - fragment
- interrogative
 - interrogati

foreshadowing

form

character arc



Words to talk about the style and effects of the text

- stream of consciousness
- motif
- cohesion/cohesive

Ways in which the reader's response can be shaped by a non-linear narrative structure:

- questions posed at the start of the text may not be answered until later;
- a past event can be re-told using present tense for dramatic impact;
- stream of consciousness helps to create realism;
- when the introductory characterisation does not align with details established at the beginning of the text, it heightens the sense of intrigue;
- foreshadowing hints at key events that will occur later in the text, building anticipation for the reader;
- motifs can act as a cohesive device across the text, representing a theme or character.

Structure can be considered at sentence level:

- compound sentences can create a specific meaning;
- fronting a word in a sentence can enhance meaning;
- sentences structures can reflect the event they are describing, adding to the realism of the text;
- the use of grammatically 'incorrect' sentences is a stylistic choice—fragments can be used to intensify meaning;
- sentence structure can effectively express the feelings of a character.

Thinking Task: Retrieve examples of these sentence structures from Heroes and consider the impact of the writer's choices. Why is the opening sentence a long compound sentence, for example?

Structure in Poetry

- Poetic form: poets may choose to follow a formalised, established structure, e.g. sonnet form.
- However, poetry does not have to adhere to or be based on any formalised structure, although structural choices will still reflect meaning.

The Sonnet

The subject matter is usually concerned with love.

- 14 lines;
- 3 x quatrains + rhyming couplet to end;
- ABABCDCDEFEFGG pattern;
- iambic pentameter.

Reading Assessment: How does Cormier structure *Heroes* in a way that creates intrigue?

How to structure an essay about literature:

 Introduction: thesis statement (2) Body: exemplifying references to prove thesis (3) Conclusion

Structure of a paragraph from the 'body' of the essay:

- topic sentence;
- text reference (quotation or indirect);
- analysis of structural choice
- reader response
- link back to question/thesis.

Example (introduction + first exemplifying paragraph + start of second exemplifying paragraph) Cormier structures Heroes to be non-linear. The narrator, Francis, gradually reveals certain details from his past that have an impact on his decisions and actions in the present. Through this structure, the relationship between Francis and Larry is developed in an intriguing way.

From the outset, Cormier places Larry in the role of the antagonist. Francis prays for Larry LaSalle, who he defines as an enemy, and 'the man I am going to kill'. By establishing Larry this way from the beginning, the writer creates the key point of conflict that will need to be resolved as the narrative progresses. At this stage, the reader is unaware of what has happened between these characters to cause Larry to be Francis' enemy, therefore intrigue is elicited because a question is posed that we do not yet have an answer to.

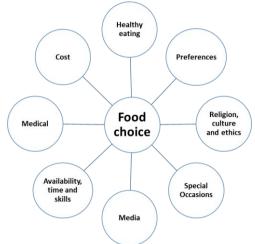
However, when the reader first meets the character of Larry, ...

Writing Assessment: Write about a time when you, or someone you know, felt betrayed. Your writing should follow a non-linear structure. Your writing could be based on events that are real or imagined.

Task: Plan your non-linear narrative.

Topic 3: Food Choice

There are many factors that influence food choice.



Healthy eating – a range of reduced fat, sugar-free and low-calorie foods are now available because people are more aware of the link between health and eating a balanced diet.

Religion and culture – many faiths have specific rules regarding food, for example, Jews do not eat shellfish or pork.

Special occasions – food can play a vital role in celebrations, religious festivals and special occasions, for example eating cake on your birthday or turkey at Christmas.



Media – food trends are always emerging and food advertising can persuade people to try new products. Teenagers might be influenced by the media or their friends (peer pressure).

Availability – most of our food is available all year round but some food are seasonal, such as soft fruits, which are only available in summer months if grown in the UK.



Medical - people with allergies and intolerances are not able to eat some foods because they cause severe reactions or unpleasant symptoms. Some people should also adapt their diet due to medical conditions such high blood pressure (low salt), diabetes (low sugar) and coronary heart disease (low fat).

Moral beliefs – people become vegetarian because they are opposed to killing animals for food. Choosing to eat only organic, Fairtrade or free range products is also becoming more popular. Organic foods are produced without any chemicals. Fairtrade foods are grown by people who receive a good deal for their produce. Free range farming is when animals are allowed to roam outside during the day rather than being kept indoors in large numbers (intensive farming).

Cost – the foods we choose to eat and places we buy food may be affected by how much money we have or how much we want to spend to food.

Topic 4: Traditional British Cuisine

Cuisine is a style of food specific to a country or region. Cuisines develop over time using distinctive ingredients, specific preparation and cooking methods or special equipment. There might also be traditional ways of serving and presenting food.



The staple foods of Britain are based on ingredients grown, reared and caught:

Foods grown in Britain – vegetables such as potatoes, onions and leeks grow well on UK farms. Fruits such as apples, plums and rhubarb also thrive. Herbs commonly used to flavour British food include mint, chives and sage.

Food reared in Britain – beef, lamb, poultry and game, pork, bacon and ham are popular. Dairy products, like cheese, butter, cream and yoghurt, are also made using the milk from dairy farms.

Food caught in Britain – as an Island nation, Britain has access to a wide range of seafood from white and oily fish to seafood such as crabs and lobsters.

From these ingredients, British people have developed a number of sweet and savoury

dishes. Many of the savoury dishes incorporate a combination of meat and vegetables. Many of the desserts include milk, butter, eggs and sugar in combination with fresh fruit.

A national survey of British people identified the most popular British dishes. They included roast dinners, fish and chips, full English breakfasts, fruit crumbles, trifles and custard.

Cooking methods frequently used in Britain include roasting, casseroling, baking and steaming.



Most British people adopt the eating pattern of three meals a day – breakfast, lunch and dinner. Afternoon tea has also become popular again as an occasional treat. It consists of a mid-afternoon snack consisting of small sandwiches, a slice of cake and cup of tea.

As more people from other countries come to live in Britain, and there are greater opportunities to travel, our eating habits have changed. Many traditional dishes are being replaced by ones originating in other countries.

French Y9 Spring 1 Vert: Ma vie en musique.

Est-ce que tu aimes la chanson? Do you like the song? Pourquoi (pas)? Why not? J'adore/J'aime la chanson ... I like/love the song... Je n'aime pas/Je déteste I don't like/hate the song... la chanson... because... parce que ... le chanteur est ... the singer (male) is... the singer (female) is... la chanteuse est ... le rythme est ... the rhythm is... la mélodie/chanson est ... the melody/song is amusant(e) / démodé(e) fun/old-fashioned intéressant(e)/bon(ne) interesting/good nul(le)/ennuyeux/ennuyeuse. rubbish/boring (m/f) Ma chanson préférée, c'est ... My favourite song is... J'adore la musique de (Zaz). I love the music of (Zaz). J'écoute en streaming. I stream music. J'ai des playlists sur I have playlists on mon portable. my phone. Ca me donne envie de danser. It makes me want to dance. J'adore les paroles. I love the songs. Je/II/Elle joue ... I/he/she/play(s)... du piano / du clavier. piano/keyboard. du saxo(phone)/du violon saxophone/violin. de la batterie/de la quitare. drums/quitar de la flûte/de la clarinette. flute/clarinet.

Qu'est-ce que tu écoutes? What do you listen to?

What sort of music Qu'est-ce que tu aimes do you like? comme musique? What don't you like Qu'est-ce que tu n'aimes pas listening to? écouter? I (really) like... J'aime (beaucoup), etc. ... le hip-hop / le jazz / le rap / hip-hop/jazz/rap/ le R'n'B / le reggae / le rock / R'n'B/reggae/rock la musique classique / classical music/ la musique traditionnelle / traditional music/ la techno/ techno/ toutes sortes de musique. all sorts of music un peu de tout. a bit of everything À mon avis,/Pour moi, c'est.. In my opinion/For me, it is.. cool / relaxant / amusant / cool/relaxing/fun/ original / intéressant / original/interesting/ ennuyeux / nul. boring/rubbish.

Comparing:

Le R'n'B est meilleur que la musique traditionnelle. R'n'B is better than traditional music. La musique classique est plus ... que le hip-hop. Classical music is more...than hip-hop.

Les jeunes réfugiés

Je suis réfugié(e). Je viens de Syrie/d'Iraq. Je suis membre d'une chorale/ l'm a member of a choir/

d'un orchestre Qu'est-ce que tu vas faire?

Je vais... visiter les États-Unis faire une tournée avec la chorale

jouer du violin écrire un blog

chanter toutes sorte de chansons sing all sorts of songs prendre beaucoup de photos être musicien(ne) professionnel(le)

Young refugees

I am a refugee. I come from Syria/Iraq. of an orchestra.

What are you going to do? I'm going to... visit the USA go on tour

with the choir play the violin write a blog

take lots of photos be a professional musician

Je suis allé(e) à un concert!

Quand est-ce que tu es allé(e) à the concert ? Je suis allé(e)au concert...

samedi demier. J'ai acheté... un billet en ligne/

des souvenirs / un poster / un tee-shirt / une casquette /

J'ai retrouvé mes amis au stade. I met my friends at the

Qu'est-ce que tu as fait aussi? J'ai chanté et j'ai dansé. J'ai pris beaucoup de photos.

J'ai pris des selfies. J'ai mangé un hamburger.

J'ai bu un coca.

Je n'ai mangé pas de pizza. J'ai vu mon chanteur /

> ma chanteuse préféré(e), mon groupe préféré.

Comment est-ce que tu es allé(e) au concert?

En bus/en voiture/à pied. C'était trop cher.

C'était fantastique!

I went to a concert!

When did you go to the concert? I went to the concert... last Saturday. I bought ... a ticket online/ souvenirs/a poster/ a t-shirt/ a cap.

stadium. What else did vou do? I sang and danced. I took lots of photos. I took selfies. I ate a hamburger. I drank a cola. I didn't eat pizza. I saw my favourite

singer. my favourite group. How did you get to the concert? By bus / by car /on foot.

It was too expensive. It was fantastic!

La musique, c'est ma vie!

Est-ce que tu joues d'un instrument?

Je joue de la guitare (etc.). Je chante, mais...

je ne joue pas d'un instrument.

Qu'est-ce que tu aimes comme musique? J'aime surtout le R'n'B.

Quelle est ta chanson préférée? What is your favourite

Ma chanson préférée, c'est... My favourite song is... Qui est ton chanteur ou ta chanteuse préféré(e)?

Mon chanteur/ma chanteuse My favourite singer is... preféré(e), c'est...

Est-ce que tu es allé(e) à un concert récemment? Hier, je suis allé(e) à un concert Yesterday, I went to a de Drake. C'était fabuleux!

Qu'est-ce que tu as fait, ...? J'ai joué avec mon groupe. J'ai fait du vélo.

J'ai joué au foot. Je suis allé(e) au cinéma avec mes amis. J'ai mangé au restaurant

avec ma famille.

Music is my life!

Do you play an Instrument? I play the guitare (etc). I sing but... I don't play an instrument. What sort of music do you like? I especially like R'n'B.

> song? Who is your favourite singer?

Have you been to a concert recently?

Drake concert. What did you do. ...? I played with my group. I went cycling.

I played football. I went to the cinema with my friends.

I ate in a restaurant with my family.

vesterday

Past time expressions

la semaine dernière last week le weekend demier last weekend l'année dernière last year

Future time expressions

next year l'année prochaine la semaine prochaine next week l'été prochain next summer à l'avenir in the future

Frequency expressions

souvent often parfois sometimes tout le temps all the time de temps en temps occasionally ne...jamais never

French Y9 Spring 2 Vert: Le meilleur du monde.

Qu'est-ce qu'on mange à la cantine scolaire ?

Dans le repas, il v a... In the meal, there is... du fromage/du lait cheese/milk du pain/du riz bread/rice de la soupe/de la viande soup/meat de l'eau water des frites/des haricots chips/ beans

des légumes/des sandwiches vegetables/sandwiches

des pommes de terre potatoes

a piece of fruit/fruit juice un fruit/un jus de fruits

C'est.../Ce n'est pas... It is.../ It isn't... délicieux / savoureux/ delicious/tastv sain / simple healthy/simple. Mon repas préféré, c'est... My favourite meal is...

Sur la photo, il y a...

un homme/une femme/ a man/woman/ un garçon/une fille boy/girl. II/elle est... He/she is... au collège/à la plage/ at school/ at the beach/ /à la campagne. in the countryside. II/elle porte... He/she is wearing... un tee-shirt/un ailet vert. a t-shirt/a green hi-vis waistcoat.

Il/elle ramasse des déchets. He/she is picking up litter. The weather is nice/bad. Il fait beau/mauvais.

Il pleut. It is raining.

Action pour la nature!

Le panda géant / le tigre / the giant panda/tiger la tortue marine / l'ours polaire / sea turtle/polar bear le rhinocéros/le crocodile rhinoceros/crocodile ...habite.... ...lives...

dans la forêt/dans l'eau/ in the forest/in the water/ à la campagne in the countryside. ...is threatened by... ...est menacé(e) par... le changement climatique/ climate change/ la chasse/la pollution/ hunting/pollution/ la déforestation. deforestation.

Qu'est-ce qu'il faut faire pour protéger les animaux menacés? What must you do to protect endangered animals?

II faut... You must... pick up litter. ramasser les déchets recycler le papier et les bouteilles recycle paper & bottles. aller au collège à pied ou à vélo. go to school on foot or

by bike. Il ne faut pas... You must not... manger trop de viande. eat too much meat.

laisser de sacs en plastique leave plastic bags on the beach. sur la plage.

Les opinions

utiliser trop d'énergie.

Je suis pour... I am for... Je suis contre... I am against... À mon avis... In my opinion... Pour moi... For me... Je pense que... I think that... Tu es d'accord? Do you agree? Je suis d'accord. I agree. Je ne suis pas d'accord. I disagree. You must be joking! Tu rigoles!

Présent ou passé ?

use too much energy.

je recycle I recycle j'ai recyclé I recycled j'utilise Luse j'ai utilisé I used je ramasse I pick up j'ai ramassé I picked up

Est-ce que tu manges de la viande? Do you eat meat? Je mange... I eat... du poisson/de la viande fish/meat/ beaucoup de fruits et de légumes. lots of fruit and veg

Je bois du lait. I drink milk. Je ne mange pas... I don't eat... Je ne mange jamais... I never eat... de viande/de poisson meat/fish/ de produits d'origine animale. animal products. Je ne bois pas de lait. I don't drink milk.

Est-ce que tu es pour ou contre le véganisme? Are you for or against veganism?

Je suis pour le véganisme. I'm favour of veganism. Je suis contre le véganisme. I'm against veganism. C'est sain. It's healthy.

La production de viande, Meat production is bad for c'est mauvais pour l'environnement. the environment. Manger les animaux, c'est cruel. Eating animals is cruel. Il y a beaucoup de vitamines There are lots of vitamins in dans la viande, le lait et le poisson. meat, milk & fish.

La viande, c'est très savoureux. Meat is very tasty. Manger des animaux, Eating animals c'est normal. is normal.

Mission écolo!

Qu'est-ce qu'on a fait récemment pour aider l'environnement ? What have we done recently to help the environment?

J'ai ramassé les déchets. I picked up litter. J'ai récycle du papier I recycled paper et du plastique. and plastic. J'ai acheté des produits bio. I bought organic products Je suis allé(e) au collège à pied. I went to school on foot We used less energy. On a utilisé moins d'énergie. On a organisé une We organised an campagne anti-plastique. anti-plastic campaign.

Je voudrais changer le monde...

Qu'est-ce que tu voudrais faire pour changer le monde? What would you like to do to change the world? I would like...

Je voudrais... utiliser moins de plastique. to use less plastic. acheter moins de vêtements. to buy fewer clothes. manger moins de viande to eat less meat. to organise an anti-litter organiser une campagne anti-déchets.

faire du travail bénévolé. to do voluntary work. to be a member of être membre d'un groupe écolo. a green group.

II faut... You/We must...

aider les animaux menacés. help endangered animals protéger la planète. protect the planet. combattre le fight climate change.

changement climatique. aider les autres.

help others.

Stratégie

campaian.

When learning new vocabulary, group words together to help you remember them: By meaning: e.g. du pain/du riz are foods. By word type: e.g. faire/manger/être are all verb infinitives.

By word family: e.g. du plastique/en plastique/ anti-plastique all contain the word plastique.

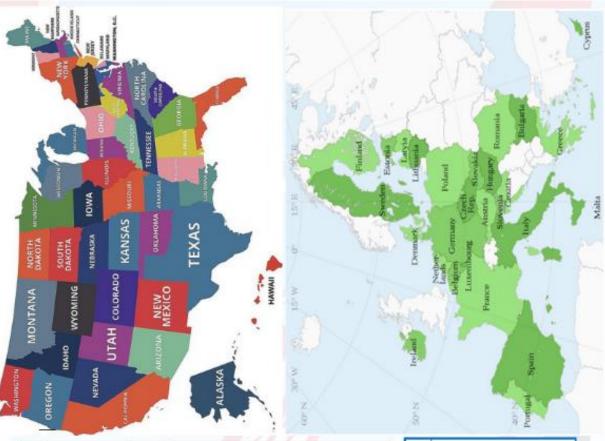
UNITED STATES OF AMERICA

Year. 9 Geography: Superpowers

Key Term	Definition
Superpower	Superpowers are countries or regions, which have some of the following characteristics: large populations, strong military power, wealth, high levels of trade, political influence and cultural influence.
Trade	Trade refers to the buying and selling of goods (products) and services between different countries around the world.
Globalisation	The way in which the world has become more interconnected. Globalisation refers to how people communicate as well as world trade, international investment and the sharing of ideas.
Culture	Culture describes the way of life, behaviours and beliefs of a particular group of people.
European Union	A group of European countries initially formed to remove trade barriers and reduce potential for war within Europe following World War II. Citizens of member states have the right to move freely to any other member state to live and
	Work

Key idea

Kingdom. Each of these countries hold strong cultural and political influence on a global scale and see fast rates of economic growth. This enables them to continue producing more goods and services to export around the world, Some of the most influential Superpowers in the world right now include: The United States of America, China, Russia, Germany and the United fuelling their ascent to greater power and international standing.



European Countries

The process by which land becomes drier and degrade The degree of wealth and material comfort available to The standard of health, comfort, happiness and wellbei A large community of plants and animals found in a improvement major habitat. Examples found in Africa include experienced by an individual or group Year 9 Geography: Africa rainforests, deserts and savannahs. and change economically and socially person or community οĮ process **Definition** Desertification Development Quality of life Key Term Standard of Biomes living

The process of change and improvement both economically and socially. The degree of wealth and material comfort available to a camba sorter.	Algeria Libya Egypt Chad Burkina Burkina Faso Cote Togo Nigeria Cote Togo Nigeria Cote Togo Nigeria Cote Togo Nigeria
ge and improvement both cape verde material comfort available to a	Mali Niger Chad Sudan Faso Nigeria Central African Central African
material comfort available to a	Burkina Sudan Faso Chad Sudan Togo Nigeria Central African
Derson or community	Togal Nigeria Central African
, comfort, happiness and wellbeing short them ividual or group.	Cameroon Republic
als found in a	Sac Tome & Principe Gabori Congo Congo Rwanda (Dem. Rep.) Burundi
rainforests, deserts and savannahs.	Tanzania
The process by which land becomes drier and degraded.	Annals Comeros
The type of government where a geographic area is ruled by a foreign power.	Zambia Mozambique Madagasca
Where countries impose influence through military force and economic force.	Namibia Botswana Swaziland
When former colonies influence countries through the	Africa Cesot
economy and international relations.	3.07

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 Orange.

colonialism

Neo-

Key ideas

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

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

mperialism

Colonialism

Y9 German - Spring Term 1

1. Würdest du ...?

Ich würde ...

mit Haifischen schwimmen. / Extrembügeln machen.

zum Mond fliegen./ Kakerlaken essen.

den Mount Everest besteigen. / Zorbing machen.

Ich bin...

abenteuerlustig / ängstlich/ feige kühn / mutig / verrückt / vorsichtig Would you ...?

Topic: Meine Ambitionen

I would...

swim with sharks. / do extreme ironing.

fly to the moon. / eat cockroaches. climb Mount Everest. / do zorbing.

I am...

adventurous / fearful / cowardly daring / brave/ crazy / cautious

2. Hast du einen Job?

Was für einen Job hast du?

Ich arbeite ...

als Zeitungsausträger(in).

als Babysitter(in). / als Trainer(in).

als Bademeister(in)./ als Hundeausführer(in).

in einem Café/Supermarkt.

Ich habe keinen Job.

aber ich will als ... arbeiten.

Wie findest du den Job?

Ich finde den Job toll/furchtbar/interessant/

langweilig/okay/nicht schlecht.

Ich mag den Job (nicht), weil ...

er interessant ist. / er langweilig ist.

er Spaß macht. / er keinen Spaß macht.

ich (nicht) viel Geld verdiene.

Do you have a job?

What type of job do you have?

I work...

as a newspaper boy (girl).

as a babysitter. / as a trainer.

as a life guard. / as a dog walker.

in a café/ supermarket.

I don't have a job,

but I want to work as

How do you find the job?

I find the job great/ terrible/ interesting/

boring/ ok / not bad.

I (don't) like the job, because...

it is interesting. / it is boring.

it is fun. / it is not fun.

I (don't) earn money.

3. Was möchtest du machen?

Ich möchte ...

Schauspieler(in)/Sänger(in) werden.

heiraten / Kinder haben.

um die Welt reisen./im Ausland leben.

bei (BMW)/für (Oxfam) arbeiten.

auf die Uni gehen und ... studieren.

What would you like to do?

I would like to...

become an actor (actress)/ singer.

marry / have children.

travel around the world. / live abroard.

work at (BMW)/ for (Oxfam)

go to uni and study

4. Arbeitsplätze

das Café/Restaurant/Hotel/Souvenirgeschäft

die Skischule / Kinderkrippe / Piste

der Berg / Wellnessbereich

Ich arbeite im Moment ...

als Zeitungsausträger(in)./als Bademeister(in).

Ich möchte später ...

Schauspieler(in) / Lehrer(in) werden.

in der Skischule arbeiten.

Ich würde nie ...

im Souvenirgeschäft/als Küchenhilfe arbeiten.

Places of work

the café/ restaurant/ hotel/ souvenir shop

the ski school / crèche / ski run

the mountain / spa

At the moment I work...

as a newspaper boy (girl) / as a life guard

Later I would like...

to become an actor (actress) / a teacher

to work in the ski school.

I would never work...

in the souvenir shop/ as a kitchen help

5. Name / Zimmer / Telefonnummer

ein Doppelzimmer / ein Einzelzimmer Wie lange? Eine Woche / zwei Wochen

Wann? Vom 4ten bis 11ten Dezember

Name / room / phone number

a double room / a single room

For how long? One week / two weeks

When? From the 4th - 11th of December

Y9 German - Spring Term 2 **Topic: Die Kindheit**

1. Was hattest du in deiner Kindheit?

Mit ... Jahren hatte ich ...

ein tolles Rad

einen roten VW

eine schöne Puppe.

einen niedlichen Teddybären.

einen kleinen Computer.

einen Fotoapparat.

einen Gokart.

eine Tasche.

eine Eisenbahn.

ein Jo-Jo.

ein Schaukelpferd.

What did you have in your childhood?

When I was ... years old, I had...

a great bicycle.

a red VW.

a beautiful doll.

a cute teddy bear.

a small computer.

a camera.

a go-kart.

a bag.

a train set.

a yo-yo.

a rocking horse.

2. Mit welchem Alter könntest du das machen?

Ich könnte mit (sechs) Monaten/Jahren ...

bis 20 zählen.

meinen Namen schreiben.

einen Handstand machen.

die Uhr lesen.

Ich durfte (nicht) ...

alleine in die Schule gehen.

Ich musste um 18 Uhr zu Hause sein.

Ich musste zu Hause helfen.

At what age could you...?

At (6) months/years I could...

count till 20.

write my name.

do a handstand.

read the clock.

I was (not) allowed...

to go to school alone.

I had to be home at 6pm.

I had to help at home.

3. In der Sekundarschule ...

sind die Lehrer streng.

haben wir viele Hausaufgaben.

In der Grundschule ...

waren die Lehrer freundlich.

waren die Klassenzimmer bunt.

älter / besser / bunter / freundlicher

größer / interessanter/ kleiner

langweiliger / lauter / leckerer

schlechter / strenger

At secondary school...

the teachers are strict.

we have lots of homework.

At primary school...

the teachers were friendly.

the classrooms were colourful.

older / better / more colourful / friendlier

bigger / more interesting / smaller

more boring / louder / more delicious

worse / stricter

4. Wie war dein bester Freund/deine beste Freundin? What was your best friend like?

Er war der .../ Sie war die ...

Größte / Kleinste

Älteste / Jüngste

Sportlichste / Faulste

Lauteste / Ruhigste

Frechste / Liebste

He was the... / She was the...

biggest / smallest

oldest / youngest

sportiest / laziest

loudest / quietest

cheekiest / loveliest

5. Magst du Märchen?

Mit (fünf) Jahren habe ich (Aschenputtel) gelesen. (Aschenputtel) war mein Lieblingsmärchen,

weil es so ... war.

Jetzt finde ich Märchen

(ziemlich) kindisch.

Ich lese jetzt (Romane/Zeitschriften)

, weil sie (interessanter) sind.

In der Zukunft werde ich ... lesen.

Do you like fairy tales?

At (5) years old, I read (cinderella).

(Cinderella) was my favourite fairy tale,

because it was so...

Now I find fairy tales...

... (quite) childish.

Now I read (novels/ magazines),

because they are (more interesting).

In the future I will read....

Second Year German - Spring 1

Das Frühstück Breakfast der/das Joghurt yoghurt der Käse cheese der Schinken. ham der Speck bacon der Toast toast der Kaffee coffee der Tee tea

der Orangensaft orange juice

das Butter butter die Marmelade jam

die Orangenmarmelade marmalade

die Milch milk

die heiße Schokolade hot chocolate

das Brötchen roll
das Obst fruit
das Ei/Eier egg(s)
die Frühstücksflocken cereal

Was isst du zum Frühstück?

What do you eat for breakfast?

ich esse einen Joghurt I eat a yoghurt ein Brötchen mit Butter und Marmelade

a roll with butter and jam

ich esse kein Frühstück

I don't eat any breakfast

Die Speisekarte Menu

(der) Fisch mit Reis und Erbsen

fish with rice and peas

(der) Flammkuchen Flammkuchen mit Sauerkraut with pickled cabbage

(die) Bratwurst mit Eiern

fried sausage with eggs

(die) Gemüsesuppe mit Brötchen

vegetable soup with a roll

(das) Hähnchen mit Pommes und Karotten

chicken with chips and carrots

(das) Schnitzel mit Kartoffeln

pork fillet in breadcrumbs with potatoes

Die Mahlzeiten	Mealtimes
die Vorspeise	the starter
die Hauptspeise	the main
die Nachspeise	dessert

Wie ist das?	?	What is it like?
süß	sweet	lecker delicious
sauer	sour	köstlich tasty
salzig	salty	gesund healthy
scharf	spicy	ungesund unhealthy
vegetarisch	vegetarian	
ekelhaft	disgusting	

Im Restaurant In the restaurant

Was nimmst du? What are you having? ich nehme... I'll take / I'm having...

den Fisch the fish

die Gemüsesuppe the vegetable soup

das Hähnchen the chicken

Mein Lieblingssandwich

My favourite sandwich

das Ketchup ketchup der Senf mustard der Thunfisch tuna fish die Erdnussbutter peanut butter die Gurke(n) aherkin(s) die Mayo mayonnaise die Olive(n) olive(s) der Käse cheese

Gesund bleiben Staying healthy

man muss... One / you / people must...

acht Stunden schlafen sleep for eight hours

wenig Fett und Zucker essen

eat little fat and sugar

viel Obst und Gemüse essen

eat lots of fruit and vegetables

mehr Wasser trinken drink more water früh ins Bett gehen go to bed early

drei Stunden trainieren exercise for three hours

Oft benutze Wörter High-frequency words

normalerweise usually gestern yesterday

bis until in in/into früh early auf on

früh *early* a

spat late mehr more wenig little

weniger less / fewer oft often

besser better

mein my / dein your / sein his / ihr her

mit with ohne without

Five key words

der Schinken ham

er isst he is eating / he eats

das Frühstück breakfast

weniger less / fewer

Obst und Gemüse fruit and vegetables

Second Year German - Spring 2

In der Jugendherberge In the youth hostel

die Hausordnung rules of the house

Man muss vor 22:00 Uhr ins Bett gehen.

You have to go to bed before ten o'clock.

Man muss das Bett machen. You have to make the bed.

Man muss das Zimmer sauber halten.

You have to keep the room clean.

Man muss vor acht Uhr aufstehen.

You have to get up before eight o'clock.

Man muss abwaschen. You have to wash up.

Man darf nicht rauchen. You must not smoke.

Man darf nicht im Zimmer essen.

You must not eat in the room.

Man darf keine laute Musik hören.

You are not allowed to listen to loud music.

5 Key Words

halb sieben half past six

Viertel quarter

Das macht Spaß it is fun

die Haltestelle (bus) stop

man muss you have to

Der Tagesablauf Daily routine

ich stehe auf. I get up.

Ich wasche / dusche mich. I get washed / shower.

ich ziehe mich an. I get dressed.

Ich frühstücke. I have breakfast.

Ich gehe aus.

Ick komme zurück.

Ich esse zu Abend.

Ich gehe ins Bett.

I go out.

I come back.

I have dinner.

I go to bed.

Um wie viel Uhr? At what time?

um ... Uhr at ... o'clock

um fünf / zehn / zwanzig / nach...

at five / ten / twenty past...

um fünfundzwanzig vor... at twenty-five to...
um Viertel nach ... at quarter past
um Viertel vor... at quarter to
um halb acht at half past seven

Wie komme ich zum / zur ...? How do i get to the ...?

 Geh / Geht / Gehen Sie ...!
 Go ...!

 (nach) licks
 (to the) left

 (nach) rechts
 (to the) right

 geradeaus
 stroight on

 Nimm / Nehmt / Nehmen Sie ...!
 Take ...!

die erste Straße links the first street on the left die zweite Straße rechts the second street on the right Geh an der Ampel links! Go left at the traffic lights. Geh an der Kreuzung rechts! Go right at the crossroads.

der Bahnhof station
der Park park
die Bushaltestelle bus stop
die Kirche church
das Schwimmbad swimming pool

das Hallenbad Indoor swimming pool

das Museum museum der Markt market (place) der Lehrer teacher (male) die Lehrerin teacher (female) das Souvenirgeschäft souvenir shop die Imbissstube snack bar ice cream parlour das Eiscafé vor dem / der... in front of the ... Entschuldigung / Bitte, ... Excuse me, ...

Auf einem Fest At a festival

der Umzug("-e) procession / parade der Festwagen (-) float (in a parade)

die Band (s) band, group das Kostüm(e) costume / outfit

der Hut("-e) hat die Fahne(n) flag die Kirmes/Kirmsen funfair

das Fahrkartengeschäft(e) ride (at a funfair)

der Imbiss(e) snack bunt colourful Oft benutze Wörter High-frequency words

zu (zum / zur) to (to the)

vor before, in front of

groß big lang long laut loud lecker tasty schön nice toll great

Das macht Spaß. That's fun.

Das hat Spaß gemacht. That was fun.

		Key words and concepts	Key People	Role	3 // 3
	Anti-Semitism	hostility to or prejudice against Jews.	Adolf Hitler Heinrich Himmler	Leader of Germany 1933-1945 A leading member of the Nazi Party of Germany.	4
	Holocaust	The word 'Holocaust' comes from ancient Greek: 'holos' means 'completely' and 'kaustos' means 'burnt'.		Himmler was one of the most powerful men in Nazi Germany and a main architect of the Holocaust.	
	Shoah	Hebrew word 'Shoah', which means 'catastrophe	Goebbels Hans and Sonhie	Minister of Propaganda of Nazi Germany A brother and sister who were members of the	
	Aryan	(in Nazi ideology) a person of Caucasian race not of Jewish descent.	Scholl	White Rose, a student group in Munich that was active in the non-violent resistance movement in	
	Synagogue	A Jewish place of worship.		Nazi Germany	
	Sterilisation	Surgery to make a person or animal unable to produce offspring.			
	Concentration	A place in which large numbers of people are deliberately		Chronology	-
	camp		1290	Edict of Expulsion	
		facilities, sometimes to provide forced labour or to await	1933	Hitler comes to power	
		mass execution.	1935	Nuremburg Laws	
	Death camp	a concentration camp in which large numbers of prisoners	1938	Kristallnacht	
36		a concentration camp in which large namers of products	1939	Germany invades Poland	
5			1941	Germany invades Russia	
	Euthanasia	The act of deliberately ending a person's life	1942	Wannsee Conference	
			1945	End of WW2	
	Ghetto	A part of a city, especially a slum area, occupied by a minority group			Useful Websit
	Final solution	the Nazi policy of exterminating European lews Introduced			coolodod+www//.sa#4
		by Heinrich Himmler and administered by Adolf Eichmann,		Common misconceptions	intps://www.memoroco
		the policy resulted in the murder of 6 million Jews in concentration camps between 1941 and 1945.	European Jewry mad	European Jewry made up a very small proportion of Europe's population.	https://www.bbc.co.uk
	Einsatzgruppen	Paramilitary death squads of Nazi Germany that were responsible for mass killings, primarily by shooting, during World War II	Europe, or 2% of the community was in P population. German of its population.	Our tile eve of the proceast, some 9 million bews lived in continental Europe, or 2% of the total population. Of these, the largest Jewish community was in Poland – about 3,250,000 Jews or 9.8% of the Polish bearing a permany's approximately 565,000 Jews made up only 0.8% of its appulation.	https://www.bbc.co.uk 8Ld0H9L9j/six-stories-c
	Gestapo	The official secret police of Nazi Germany and in German-occupied Europe.	Hitler was not the or Police, SA officers, ci	Hitler was not the only perpetrator of the Holocaust. SS officers, The Police, SA officers, civilians etc. can all be implicated in this event.	The Book Thief by Marl with parents taken awa
	Propaganda	Information, especially of a biased or misleading nature, used to promote a political cause or point of view.	The Holocaust did n	The Holocaust did not trigger Britain's entry into WW2.	a community in Germa
			6 million Jews died o	6 million Jews died during the Holocaust.	from the Second World



Useful Websites/books/films/documentaries

https://www.theholocaustexplained.org/

https://www.bbc.co.uk/bitesize/guides/zkfk7ty/revision/1
https://www.bbc.co.uk/programmes/articles/4W3yzYG6DzPBH0

8LdOH9L9j/six-stories-of-children-who-survived-the-holocaust
The Book Thief by Markus Zusak – Narrated by death. Fostered,
with parents taken away, a young book thief called Liesel lives in
a community in Germany that death is visiting.

with parents taken away, a young book thier called Llesel live a community in Germany that death is visiting.

Diary of a Young Girl by Anne Frank. The most famous diary rom the Second World War.

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Chro	Chronology	Key People	Role	Key Words	Definition
1917	Russian Revolution	Harry S.	US President, 1945-53.	Communism	An economic theory based
8 th May 1945	VE Day	Truman	Made the decision to drop		on common ownership.
6 th and 9 th August	Atomic bomb		the atomic bomb on	Capitalism	An economic theory based
1945	dropped on		Japan.		on private ownership.
	Hiroshima and	Joseph	Communist dictator of the	USSR	The Union of Soviet Socialist
	Nagasaki	Stalin	USSR from the late 1920s		Republics (or Soviet Union).
15 th August 1945	VJ Day		until 1953.		A union of multiple
1949	The USSR tests their	John F.	US President, 1961-3. Key		communist states, the
	first atomic bomb	Kennedy	player in the Cuba Missile		largest of which was Russia.
1962	Cuba Missile Crisis		Crisis. Assassinated in		The USSR's capital city was
1989	Fall of the Berlin Wall		Dallas, Texas in 1963.		Moscow.
1991	Fall of Communism	Nikita	Communist dictator of the	Ballistic	A rocket-propelled,
	in the USSR	Khrushchev	USSR, 1953-1964. Key	Missiles	self-guided weapon, capable
			player in the Cuba Missile		of delivering a warhead.
Common Mi	Common Misconceptions		Crisis.	ICBMs	Intercontinental Ballistic

To seal off a place to prevent

Blockade

7-7 0-7

US President, 1981-89.

Crisis.

dictator of the USSR, The final communist

Gorbachev

both sides gave support to opposing sides

in a smaller war) for example the Korean

War and the Vietnam War.

took part in "proxy wars", (conflicts where

and the USSR. Despite this both sides is one such example between the USA

many cold wars in history. The Cold War

short of going to war. There have been

two or more countries which stops just

Reagan Ronald

Mikhail

1985-1991

A US spy plane.

range of over 3000 miles

(i.e. capable of going between continents).

player in the Cuba Missile Cuba, 1959-2008. Kev

Communist dictator of

Fidel Castro

Missile. A missile with a

President Kennedy did to

entering or leaving, as goods or people from

Cuba during the Missile

Crisis.

government and released in attack, produced by the UK

A wall dividing communist

Berlin Wall

East and capitalist West Berlin from 1961-1989.

videos covering what to do

in the event of a nuclear

A pamphlet and series of

Protect and

Survive

opposing political theories. The USA was a democracy where the people chose the dictatorship where the people had no say should be produced) about how counties opposing economic theories (how things should be run. The two sides also had Communism and Capitalism are two government. The USSR was a in who ran their country.

A cold war is a state of tensions between

MATHEMATICS

EQUATIONS

Key Concepts

A **formula** involves two or more letters, where one letter equals an **expression** of other letters.

An **expression** is a sentence in algebra that does NOT have an equals sign.

An **identity** is where one side is the equivalent to the other side.

When substituting a number into an expression, replace the letter with the given value.

A hegartymaths

153, 189

Examples

- 1) $5(y+6) \equiv 6y+30$ is an identity as when the brackets are expanded we get the answer on the right hand side
- 5m 7 is an expression since there is no equals sign
- 3) 3x 6 = 12 is an equation as it can be solved to give a solution
- $C = \frac{5(F-32)}{9}$ is a formula (involves more than one letter and includes an equal sign)
- 5) Find the value of 3x + 2 when x = 5

$$(3 \times 5) + 2 = 17$$

Where $A = b^2 + c$, find A when b = 2 and c = 3

$$A = 2^2 + 3$$

$$A = 4 + 3$$

$$A = 7$$

Questions

1) Identify the equation, expression, identity, formula from the list (a) v = u + at(b) $u^2 - 2as$

(c)
$$4x(x-2) = x^2 - 8x$$

(d)
$$5b - 2 = 13$$

- 2) Find the value of 5x 7 when x = 3
- 3) Where $A = d^2 + e$, find A when d = 5 and e = 2

(c) identity

72 = A (E ANSWERS: 1) (a) formula

EQUATIONS

(q) ednation

Key Concepts

Solving equations:

Working with inverse operations to find the value of a variable.

Rearranging an equation:

Working with inverse operations to isolate a highlighted variable.

In solving and rearranging we undo the operations starting from the last one.

For each step in solving an

equation we must do the **inverse**

Key Words

Substitute

Equation

Formula

Identity

Expression

operation

Solve:

$$12 = 3x - 18$$
 +18

$$30 = 3x$$

$$x = 10$$

Solve:

$$5(x-3) = 20$$

Expand

$$5x - 15 = 20$$

$$+15$$
 $+15$ $5x = 35$

$$x = 7$$

Solve:

$$7p - 5 = 3p + 3$$

$$4p - 5 = 3$$

$$+5$$

$$4p = 8$$

Examples

Rearrange to make r the subject of the formulae:

$$Q = \frac{2r-7}{3}$$

(b) expression

$$3Q = 2r - 7$$

$$3Q + 7 = 2r$$

$$\frac{3Q+7}{3}=r$$

$$\frac{3Q+7}{2} = r$$

A hegartymaths 177-186, 280-284, 287

Kev Words

Solve Rearrange Term Inverse operation

1) Solve 7(x + 2) = 35

2) Solve 4x - 12 = 28

3) Solve 4x - 12 = 2x + 20

4) Rearrange to make x the subject:

$$y = \frac{3x + 4}{2}$$

+5

ANSWERS: 1)
$$x = 3$$
 (2) $x = 10$ (3) $x = 16$ (4) Answers: 2)

MATHEMATICS

REARRANGING Formulae

Key Concepts

Rearranging an equation:

Working with inverse operations to isolate a highlighted variable.

When rearranging we undo the operations starting from the last one.

Examples

Rearrange to make r the subject of the formulae:

$$Q = \frac{2r - 7}{3}$$

$$\times 3$$

$$3Q = 2r - 7$$

$$+7$$

$$3Q + 7 = 2r$$

$$\div 2$$

$$\uparrow 2$$

Rearrange to make c the subject of the formulae:

$$2(3a - c) = 5c + 1$$
expand

$$6a - 2c = 5c + 1$$

$$+2c + 2c + 2c$$

$$6a = 7c + 1$$

expand
$$6a - 2c = 5c + 1$$

$$+2c$$

$$6a = 7c + 1$$

$$-1$$

$$6a - 1 = 7c$$

$$\div 7$$

$$\frac{6a - 1}{7} = c$$
square
$$\frac{ac}{b} = d^{2}$$

$$\times b$$

$$ac = bd^{2}$$

$$\div c$$

$$\frac{ac}{b} = d^{2}$$

$$\Rightarrow ac = bd^{2}$$

$$\Rightarrow ac = bd^{2}$$

Rearrange to make a the subject of the formulae:

$$\sqrt{\frac{ac}{b}} = d$$

$$\frac{ac}{b} = d^2$$

$$c \cdot c$$
 bd^2

A hegartymaths

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Key Words

Rearrange Term Inverse

- 1) Rearrange to make a the subject $r = \frac{5a+3}{t}$
- 2) Rearrange to make m the subject 2(2p + m) = 3 5 m
- 3) Rearrange to make x the subject $\sqrt{\frac{4x}{y}} = z$

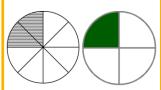
ANSWERS: 1)
$$a = \frac{7}{3 - 4} = x$$
 (5) $a = \frac{7}{4} = x$ (2) $a = \frac{7}{4} = x$

RATIO

Key Concept

Shaded: Unshaded

1:3



Writing as a fraction:

 $\frac{1}{4}$ shaded, $\frac{3}{4}$ unshaded

& hegartymaths

Key Words

Ratio: Relationship between two numbers.

Part: This is the numeric value '1' of, would be equivalent

Simplify: Divide both parts of a ratio by the same number.

Equivalent: Equal in

Convert: Change from one form to another.

Examples

Simplify 60:40:100

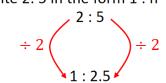
÷ 10 This could have 6:4:10 been done in ÷ 2 3:2:5 one step by

dividing by 20. Share £45 in the ratio 2:7

 $45 \div 9 = 5$

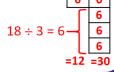
£10:£35

Write 2: 5 in the form 1: n



Joy and Martin share money in the ratio 2:5. Martin gets

£18 more than Joy. How much do they each get?



Tip

Its often useful to write the letters above the ratio. This helps you keep the order the correct way round.

Questions

£12:£30

- Simplify a) 45:63 b) 66:44 c) 320:440
- Write in the form 1:n a) 5:10
- Share 64 in the ratio 3:5 4) Write the ratio 1:4 as a fraction.

 $^{2}/_{\tau}$ (2 2.1:1(a 2:1(a(2 ANSWERS: 1) a) 5:7 b) 3:2 c) 8:11

World Music - An introduction to Reggae Music

Reggae is one of a number of styles of music that originated in the Caribbean. Reggae is important as it has become a very influential style in Rock and Pop music across the world. The unit will look at the cultural roots of Reggae in Jamaica and the historical and religious background to the music. Bob Marley is the best known Reggae Artist.

the seet known reeggae	
	Key Term – Chords/Harmony
Reviewing and d	leveloping knowledge of chords and triads from previous units (Y7/T2, Y8/T1)
Tonic Chord	Chord I
Subdominant Chord	Chord IV
Dominant Chord	Chord V
	Key features of Reggae
Bass line	Generally based on repeating RIFF patterns and quite melodic.
Call and Response	Call and response often features between instruments.
Simple Harmonies	Most harmony based upon chords I, IV and V
Off-beat rhythms	Instruments such as guitar and organ play on beats 2 and 4 – also known as SKANKING.
Syncopation	Offbeat rhythms
Tempo	Generally, quite slow and relaxed
Structure	Most reggae songs are in simple Verse/Chorus form
Repeating Riffs	Instruments often play repeating patterns
	Instruments
Lead Vocal, Backing Vo Saxophones.	ocal, Electric Guitar, Bass Guitar, Drums, Electric Organ, Trumpets, Trombones and
Rastafarianism	The Jamaican religion closely linked to Reggae
	Related musical Genres
Calypso	A style of Afro-Caribbean Music popular at the start of the twentieth century
Rock Steady	The pre-runner of Reggae in 1960's Jamaica
Ska	A much faster tempo type of music with many similar characteristics of Reggae. Used as the basis for the Two-Tone movement in the UK in the 1980s with bands like Madness and the Specials.

Listening	Listening to and identifying characteristics of Reggae and other related genres.
Performing	Performing reggae songs, incorporating characteristic elements such as Bass Riffs and offbeat chords.
Contextual knowledge	Develop an understanding of how religion, politics and history are fundamental to the understanding of Reggae music. Research background information about Bob Marley.

World Music - An introduction to Salsa Music

Like so many musical genres from the Americas and the Caribbean, Salsa has its roots deep in the slave trade. In this instance, Salsa can be traced to Cuba evolving from Cuban Son music, but is generally recognised to be a fusion of many different Latin styles and first came to prominence in New York in the 1940s when Latin rhythms and jazz fused to form an upbeat energetic style of music.

Key Term -	rhythm	Rhythm is fundamental to the understanding of Salsa music.
Ostinatos	Most rhythn	n parts are based upon a 4 or 8 beat repeating rhythm
Polyrhythm	Polyrhythms	s are when different rhythms are layered up on top of each other.
Syncopation	The use of	syncopation help create a dense and interesting rhythmic texture
3:2 rhythm	Rhythmic os Son Clave.	stinatos are often 2 bars, with 3 notes in one bar and 2 in the next, called the
		Other main features of Salsa
Extended chords	The jazz inf harmonies	luence meant that Salsa uses a lot of 7 th and 9 th chords to create complex
Tempo	Generally fa	ast
Structure	Based upor	Verse/Chorus song structure, but often with instrumental solos
Improvisation	Solos are of	ften, as in jazz, improvised.
Fusion	Music that is	s created by fusing two or more different styles.
		Instruments

A Salsa ensemble is underpinned by percussion instruments – Congas, Bongos and Timbales as well as a host of smaller hand held instruments such as claves, guiros and maracas which are often played by the singers

The rest of a typical ensemble is made up of bass, piano and a horn section, although woodwind and strings can also feature.

	Related musical styles
Son	Cuban dance music from which Salsa developed
Jazz	Heavily influenced the development of Salsa
Cha Cha/ Conga/Rumba	Other Latin-American genres from different countries that have many similar characteristics
Timba	A fast tempo version of Salsa

Listening	Listening to and identifying characteristics of Salsa and other related genres. Identifying how music from different cultures and traditions can be fused to create new styles.
Performing	Performing Latin and Salsa rhythms, incorporating characteristic elements such as 3:2, Polyrhythms and syncopation.
Contextual knowledge	Develop an understanding of how different cultures combine and also the importance of the Salve Trade and immigration had on the development of Latin American music.

9.3 KS3 Core PE Knowledge Organiser: Long Term effects of exercise on the Musculoskeletal System



1. INCREASED BONE DENSITY

bones adapt during exercise by becoming thicker and heavier (denser) to prevent fractures from occurring. Strong bones reduce the risk of injuries.

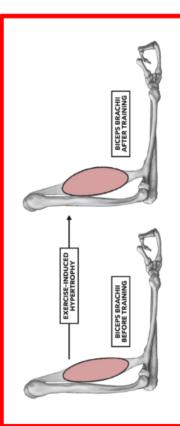
A Gymnast needs strong bones so they don't suffer fractures when landing after a somersault.



2. INCREASED STRENGTH OF LIGAMENTS & TENDONS

during exercise ligaments and tendons are stretched during exercise and they adapt by becoming thicker and stronger to prevent injury.

without injury to their ligaments or tendons in their knees and ankles. A Basketball player needs to be able to jump and change direction



3. MUSCLE HYPERTROPHY

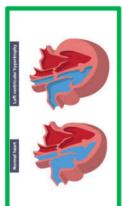
 increase in muscle size and strength/endurance. Comes from muscles tearing and healing thicker and stronger. A rower requires strong muscles in their upper and lower body to overcome the resistance of the water.

QUESTION: Lucy exercises regularly to increase her fitness.

Describe one way in which the muscular system is affected by regular exercise and the long term benefit of this effect on the (2 marks) performer.

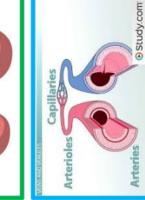
Command word - Describe: Give an account of something, or link facts, information, events or processes in a logical order. Lucy's tendons, that join muscle to bone, will become thicker and stronger meaning she will be less prone to injury.

In addition, regular exercise will also cause muscle hypertrophy, meaning Lucy's muscles will grow in size. This will benefit Lucy by increasing her muscular strength.



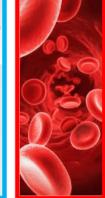
1. CARDIAC HYPERTROPHY

- this is the **increased size** of the heart (left ventricle) due to training. This makes the heart stronger, meaning it can pump out more blood per beat, even at rest, therefore does not have to work as hard causing your resting heart rate to be lower.



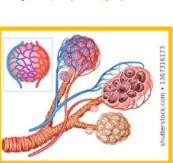
2. INCREASE IN ELASTICITY OF THE MUSCULAR WALLS OF THE ARTERIES & VEINS

- the more the arteries and veins can dilate (widen) and constrict (tighten). Oxygen is delivered to the working muscles faster, causing your resting blood pressure to drop.



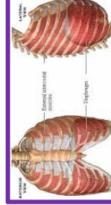
3. INCREASE IN THE NUMBER OF RED BLOOD CELLS

- red blood cells carry oxygen to the working muscles. The more red blood cells a performer has, the more oxygen can be carried to their working muscles to produce energy for movement.



4. CAPILLARISATION AND AN INCREASE IN THE NUMBER OF ALVEOLI

gaseous exchange can take place. Therefore, a performer is able to deliver more oxygen to their - capillarisation results in an increase in the number of capillaries wrapped around each alveoli, working muscles and remove waste products (carbon dioxide) more quickly, resulting in them which also increase in number in the lungs. An increase in both means that a greater level of being able to work longer at a moderate (aerobic) intensity.



5. INCREASED STRENGTH OF DIAPHRAGM AND INTERCOSTAL MUSCLES

- meaning you can breathe more deeply. This increases the amount of air you can inhale and exhale with each breath, causing more oxygen to be brought into the body and delivered to the working muscles for energy production.

VOCABULARY:

	Key Word	Definition	Reli
	Agnostic	Someone who does not know whether there is a god or gods.	Thomas Aquinas – a 13 th
	Atheist	Someone who does not believe in the existence of a god or gods.	put forward the First Cau universe is God). He also
	Creationist	Someone who believes that God created the world in six days, as described in Genesis.	
	Design/teleological argument	The argument that the world looks designed and so has a designer – God.	Charles Darwin – a 19 th theory of evolution by na
	Faith	Belief or trust in something that cannot be proven.	monkey like creatures. So
	First Cause argument	The argument that everything in the universe needs a cause and so the universe also needs a cause, which is God.	
45	Free will	The ability to choose between right and wrong.	Rene Descartes – a 16^{th} c exist because his mind eximits
	Humanist	An atheist who believes that science and our shared human reason and compassion should guide how we live the one life that we have.	
	Miracle	An even that cannot be explained naturally and so is seen as an act of a god or gods.	David Hume – an 18 th ce argument and a belief ir
	Nones	A term used by sociologists to describe the diverse group of people with no religion, including atheists, agnostics and those who are spiritual but not religious.	1998
	Problem of evil	The argument that evil and suffering shows that a power, knowing, loving God does not exist.	Plato – an Ancient Gree said we cannot rely on
	Theistic evolution	The belief that God started the process of evolution and used it to bring about life.	

Religious Studies Year 9: Philosophy of religion

use Argument (This says that everything needs a cause and that the cause for the o believed in the Design Argument (This states that the world looks designed and th century Italian philosopher who argued that a faith in God was reasonable, and so has a designer – which is God).

ome Christians agree with Darwin. They believe in theistic evolution, which is the atural selection. He put forward the theory that over millions pf years all life has n ancestor, a single cell. Over a very long time humans have slowly evolved from 1th century scientist and author of 'On the origin of species'. He put forward the God started the process of evolution and used it to bring about life.

century French philosopher who claimed that his ability to think proved he must exists. He also believed that humans are born with the idea of God imprinted on their minds.

when they retell them. He claimed that there has never been a miracle that was century Scottish philosopher who criticised the First Cause argument, the Design in miracles. He said that people are fascinated by unusual things, and they then en by enough sensible educated people to prove it was true.

ek philosopher who claimed that knowledge is gained through using reason. He n our senses to give us accurate information as things are constantly changing.

	Key Terms	Definitions	Religious Studies: Hinduism Practices and Lifestyles	d Lifestyles
	Worship	Showing respect and adoration to the Divine.		
	Sacred	Holy, religious, connected to the Divine.	Hindus can worship anywhere, the Divine is everywhere. They may worship outside, or in a building, but all	ship outside, or in a building, but all
	Shrine	A sacred space where a deity is worshipped.	focus their worship on a shrine with a murti of their favourite deity taking central place. Many Hindus have	ng central place. Many Hindus have
	Mandir	A Hindu temple, often contains several shrines.	shrines at home, but they may also visit a Mandir to pray there, or worship outside at a sacred place.	orship outside at a sacred place.
	Murti	An image of a deity.	How do Hindu worship is very diverse, and often very colourful. The murti on the shrine is usually central, and	the shrine is usually central, and
	Personal deities	A Hindu may pick one deity to focus on.	prayers are said to it, then the deity is asked to bless the worshipper – this is called darshan. Puja (worship)	his is called darshan. Puja (worship)
	Puja	Respecting / honouring / worshipping a chosen deity.	may well involve offerings of flowers and fruit with prayers and mantras being recited. The main worsnip ceremony is the arti (arati) ceremony which involves an arti lamp being passed around with prayers and	as being recited. The main worsnip ig passed around with prayers and
	Arati / Arti	An offering of light, often using an arti lamp.	hymns being sung. During Hindu weddings a fire is lit with wood and ghee, rice is offered and prayers are	hee, rice is offered and prayers are
	Darshan	Viewing a murti with respect and receiving a blessing.	Who leads worship in Hinduism?	17
	Havan	Fire sacrifice offered to Agni the fire god.	Traditionally worship was led by brahmins, male members of the priestly caste. Today brahmins may still	stly caste. Today brahmins may still
ш 46	Mantra	A chant, holy sounds e.g. Aum repeated.	lead worship in a Mandir but others also take a key role. Gurus, are teachers who help others to reach enlightenment, a Hindu may follow one guru, elder or sadhu. A sadhu is a wandering holy man. At home	eachers who help others to reach is a wandering holy man. At home
	Meditation	Praying by being still, focusing the mind on God.	the mother leads worship, but today there are also some female gurus.	ome female gurus.
<u> </u>	Bhakti / path of bhakti	Loving devotion to a God / gods. The path of worship, involving puja, and individual meditation.	What about pilgrimage in Hinduism? Varanasi on the River Ganges is central in Hindu pilgrimage, it is seen as a place where earth and heaven	sm? as a place where earth and heaven
	Gurus	Wise spiritual teachers.	meet. Pilgrims hope to bathe in the river and join in the evening arti ceremony on the river banks. It is a	eremony on the river banks. It is a
	Brahmins	Traditional priests, found in a temple.	'gateway to Moksha' with many hoping to die or be cremated there. At the side of the Ganges there are	es if you walt. It is also seen as a It the side of the Ganges there are
	Pilgrimage	A journey to a sacred place.	ghats for cremation, and the ashes are then sprinkled in the Ganges. Kumbh Mela is pilgrimage festival that happens across 4 different pilgrimage sites. The biggest gathering is	ed in the Ganges.
	Ganges	Mother Ganga, a holy river for Hindus.	every 12 years, when naked ash-smeared sadhus wearing garlands of orange flowers lead the bathing.	f orange flowers lead the bathing.
	Varanasi	On the Ganges, a key pilgrimage site for Hindus.	Kov guotes on worsehin.	Key quotes on worship:
	Kumbh mela	A pilgrimage festival for Hindus.	3rahman; in	"A leaf or flower, water, fruit I cherish from
	Shaivism	Shaivites focus on the worship of Lord Shiva.	sound and in silence." (Upanishads)	offering." (Bhagavad Gita)
	Vaishnavism	Vaishnavaites focus on Lord Vishnu, and his avatars.	Key quotes on gurus:	
I			The pearl is found in the oyster, and the oyster in the sea. The diver brings it up. No one else has the pearl	brings it up. No one else has the

Key Terms	Definitions
Reincarnation	When a body dies a soul is reborn in another body.
Samsara	The cycle of life, death and rebirth.
Inner self	The Atman / soul. Spiritual, reborn at death.
Material mind / body	Physical, comes to an end at death.
Karma	Actions, lead to rewards or punishments affecting rebirth.
Moksha	Escape from samsara, liberation, freedom.
Liberation	Freedom, for a Hindu escape from samsara.
Dharma	Duties.
Sanatana dharma	Eternal, timeless truth, duties for all. Hinduism!
Varnashrama dharma	Duties vary, for different stages in life and different castes.
Yoga	Union with the Divine.
4 paths towards Yoga	Bhakti (worship), Jnana (knowledge), Astanga (meditation) and Karma (selfless action) are the 4 paths towards Yoga and Moksha.
4 aims of human life	Moksha, Dharma, Artha and Kama
Artha	Working hard to gain wealth through lawful means
Kama	Pleasure, taking delight in the senses.
Free will	We can choose how to act, we aren't puppets.
Virtues	Good behaviour eg. Showing respect or empathy.
Ahimsa	Not killing but respecting life. Non-violence.
Cows	A sacred animal for Hindus.

Religious Studies: Hinduism Practices and Lifestyle

What do Hindus believe about the afterlife?

Hindus believe in reincarnation, where a soul moves on into a new body after death. The cycle of samsara they have taken in a previous life. We are rewarded for good and punished for bad in life, and after death. is a continuous cycle of life, death and rebirth. How we are reborn depends on their karma, the actions A human may be reborn as an animal, or in an upper realm. Moksha is escaping the cycle, where an individual atman unites with Brahman.

What about dharma?

(Kshatriya) caste has different dharma to a member of the Brahmin (priestly) caste. This idea that duties All humans have duties in life, fulfilling those duties will improve one's rebirth. But we have different duties, a student has different duties to an adult in the householder stage, a member of the warrior vary is called Varnashramadharma. Eternal truth and duties true for all in all times and places is Sanatandharma, and for Hindus this is their preferred name for their religion.

What are the paths towards Yoga / Moksha?

and devoting yourself to God / a god. The path of Jnana focuses on studying the Scripture. Astanga yoga is There are different ways to work towards union with the divine. The path of Bhakti involves worshipping the path of meditation, and Karma yoga is the path of selfless action. Different paths to the same goal.

What are the aims of human life?

terms, working hard to achieve wealth lawfully while Kama involves taking a delight in physical things and different and Hindus may not all be capable of Moksha, so there are also other aims. If Moksha is the aim our paths in life, but we need to be virtuous, following virtues like ahimsa or others may suffer – and we sensual matters, but not mistreating others. Humans have free will to make choices about our aims and of liberation, Dharma is aiming to fulfil your duties. Artha is the aim to be successful in life in material One aim is to achieve Moksha, some say it should be the main aim for a Hindu but they everyone is certainly will in a future life, if not now.

Key quote on reincarnation:

'As a man casts off his worn out clothes so the body's soul takes other forms when it discards the ones that die.' (Bhagavad Gita)

Key quote on the Atman:

"Atman... is never born and never dies. Never-born and eternal... does not die when the body dies."

Key quotes on virtue:

"Be friendly and compassionate, released from ego-selfishness, patient, hate not any being." (Bhagavad Gita)

Pathogen	Disease	Spready by	Symptoms	Prevention and treatment
/irus	Measles	Air droplets	Fever and red skin rash	Painkillers to treat symptomsVaccination
Bacteria	Gonorrhea	Direct sexual contact	Thick yellow or green discharge from the genitals and pain when urinating	 Treatment with antibiotics Barrier methods of contraception
Fungi	Athlete's foot	Direct	Itchy red white patches between toes	Anti-fungal cream
Protist	Malaria	Bite from female mosquito	Fever	•Antimalarial medicine •Prevent mosquito bites
		(vector)	Illnesses caused by path	Illnesses caused by pathogens are communicable diseases

Vaccination

Immunity

Bacteria

Virus

Tier 3 Vocabulary

Specific

Protist

Fungi

Malignant

Pathogen

Placebo

Benign

Antibody

Antigen

Year 9 Topic 2 Biology

Knowledge Organiser

Tier 2 Vocabulary

Complementary

Drug discovery Drugs were traditionally Sta

In herd immunity,

the vaccinated protect the unvaccinated.

> White blood cells Produce antibodies

inactive pathogen

is injected

Vaccinations

1.Dead or

3. Antibodies bind

to pathogens on

pathogens

Carcinogen

Drugs were traditionally extracted from plants and microorganisms

- **Digitalis** (heart drug) from foxgloves
 - Aspirin (painkiller) from willow trees
- Penicillin (antibiotic) from mould

Antibiotics do not kill viruses, so they won't work against the flu and most coughs and colds.

4. Pathogens clump

5. Pathogen is

together

destroyed

6. Production of memory cells

Drugs are trialled and tested for toxicity, efficacy and dose

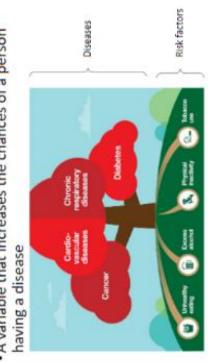
Stages of clinical trials Pre-clinical trials

- e-clinical trials
- Drugs are tested on cells and tissues
 - Tested on animals Clinical trials
 - Tested on healthy volunteers
- Tested on unhealthy volunteers

Some trials use a placebo, dummy pill which has no effect

48

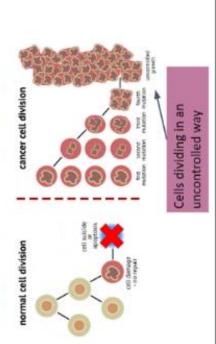
Risk factor • A variable that increases the chances of a person having a disease



Non-communicable disease - cannot be spread

Cancer

Carcinogen - cancer causing chemical



Benign

Normal cells

Benign tumour

Tumours

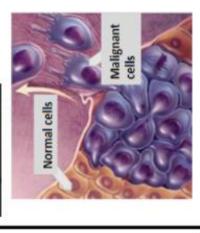
cells

Malignant tumour

growth is restricted to

one area

When abnormal cell



Cancer cells that can invade neighbouring tissues and spread to different parts of the body

Drugs and alcohol

- Recreational drugs are chemical substances taken for enjoyment or leisure purposes (e.g. alcohol, nicotine, caffeine)
- Medicinal drugs are taken for medical reasons to treat diseases (e.g. paracetamol, morphine, aspirin)
- Addiction a psychological and physical inability to stop doing something even though it is causing harm

Reduces the Nicotine is amount of oxygen red blood cells carcinogen addictive can carry Tar is a cigarette smoke arbon monoxide a cigarette: cleaning fluid) Formaldehyde dead bodies) preserves Ammonia Smoking varnish) Shellac

Risk factors for diabetes

Diabetes is a disease in which people can not control there blood sugar

TAGE OF EXERCISE

TAGE

Two types of diabetes

Type 1 - Not enough insulin is produced

Type 2 - Not enough insulin is produced or receptors do not respond to insulin

Both types can be treated with insulin



Illnesses caused by lifestyle and genetic causes are non-communicable diseases

Material	Description	Properties	Uses
Ceramics	A compound such a metal silicate or oxide that is hard, strong and has a high melting point	 Hard Brittle Stiff Solid at room temperature Strong Break easily Electrical insulators 	 Bricks – are strong which makes them suitable for buildings Electrical power-line insulators – ceramics do not conduct electricity
Polymers	A substance made up of very long molecules	Does not conduct electricity Poor conductors of heat	 Carrier bags (low-density polyethene) Artificial joints (high-density polyethene)
Composites	A mixture of materials with properties that are a combination of those of the materials in it	Has properties that are a combination of the properties of the materials it is made up of	 Carbon-fibre-reinforced plastic Glass-fibre-reinforced aluminium

Year 9 Bonding Knowledge Organiser

ier 2 Vocabulary

ttraction roperties

pposite

Ethene

allows it to join with other breaking the double bond

monomers.

Ethene is able to act as a

monomer because

ier 3 Vocabulary Intermolecular elocalised Composite Malleable Monomer ovalent **Aetallic** Electron Ceramic Polymer Ductile onic Alloy lon

> slide over each other. Making alloys stronger than pure metals. They contain metal ions of different sizes. This means the ions Alloys are created from a mixture of metals. cannot arrange in regular layers and layers cannot Sn Fe

A polymer is a long-chain molecule made up of a repeated pattern of monomers.

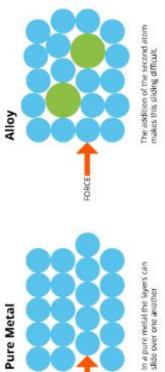


Common alloys: Steel,

Brass, Bronze

Bronze

Steel



MONOMER

Structure of Monomers and Polymers

A monomer is a small molecule.

between positive metal ions and negative non-metal <u>lonic bonding</u> – A strong electrostatic attraction

attraction between positive metal ions and

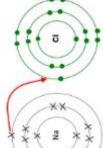
negative delocalised electrons.

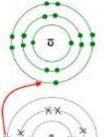
Positive metal

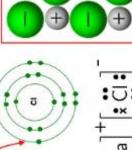
lons

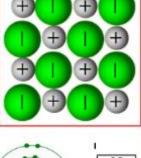
Metallic bonding – A strong electrostatic

ž metal and a between a nonmetal Occurs ions.









Fullerenes

example of

are an

specially

designed

giant

moving negative

Electrons

Sea of freely

Can conduct electricity but only when molten/ dissolved :<u>:</u>:

The metal ion becomes positive as it transfers electrons to the non-metal, making it negative. Opposite charges then attract. Many positive and negative ions together from a giant structure called a giant lattice. Common example: Sodium Chloride

structure

Giant Covalent Bonding - when an atom bonds to lots of others

using many strong covalent

delocalised electrons are free to move. This

allows metals to conduct electricity

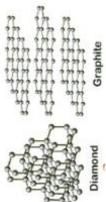
the metal malleable (easy to shape). The

Metal ions are arranged in layers allowing them to slide over each other. This makes

Occurs between metals only



Hard



A molecule of methane, CH₄

H

I

four hydrogen atoms A carbon aforn and

Graphite conducts electricity as delocalised electrons can move between the layers

Sharing two pairs is a double bond.

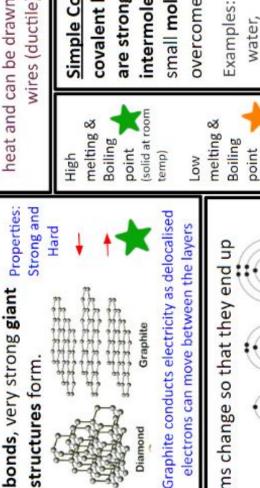
Why bond? - In all types of bonding atoms change so that they end up with a full outer shell of electrons.

This is mostly 8 but in the case of hydrogen 2.



at room temp)

(gas or lic.)





Covalent Bonding – A strong bond

between nonmetals where atoms

share a pair of electrons.

A water molecule

0

0

×

Year 9 Topic 2

Knowledge Organiser Energy



greater mass or speed will have more kinetic Objects with

energy.

kinetic energy,
$$E_k = \frac{1}{2} \times \text{mass, } m \times \text{speed}^2, v^2$$

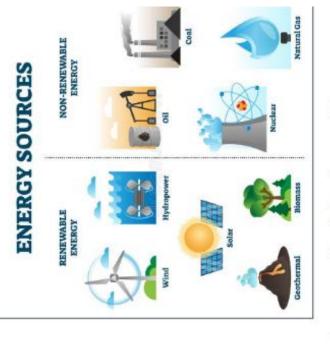
(joules, J) (kilograms, kg) (metres per second, m/s)²

× height, ∆h change of metres, m) field strength, g kilogram, N/kg) gravitational (newtons per (kilograms, kg) mass, m 11 energy store, $\Delta E_{_{
m B}}$ gravitational potential change of (jonles, J)

efficiency = useful output energy transferred by the device (J) total input energy supplied to the device (J) For any device that transfers energy:

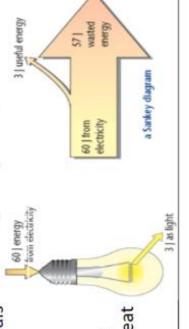
distance moved along the line of action of the force, s metres, m) work done, $W = \text{force applied}, F \times$ (newtons, N) joules, J)

wasted energy. For example at lamp will produce light energy that we want and heat When energy is transferred some might end up in a form that is not useful. This is that is wasted energy.



Burning fossil fuels causes the following problems:

- Carbon dioxide Climate change/Global warming Sulfur dioxide - Acid rain, toxic to plants and animals
- Nitrogen oxides Acid rain, smog, toxic to plants Energy flow through filament lamp and animals



Tier 2 Keywords	ords		Tier 3 Keywords			
Chemical	Movement		Closed system	Dissipated	Efficiency	Ela
potential	Electrostatic					
Heat	Height		Gravitational potential	Kinetic	Magnetic	Luk
Magn	etic					
System	Light	Work	Open system	Thermal	Nuclear	

Ibrication

astic

Energy is transferred from one object to another Waves (e.g., light and sound waves) can transfer When an electric current flows it can transfer Energy can be transferred to and from different Energy is transferred when a force moves or object with a lower temperature. changes the shape of an object Forces (mechanical work) **Energy transfers** energy by radiation. Electricity Heating stores by: Waves energy. potential energy of the particles in the is near a magnet or in a magnetic field energy an elastic object has when it is energy a magnetic object has when it fuels, and the chemicals in batteries energy an object has because of its energy an object has because of its chemical reactions involving foods, energy a charged object has when energy an object has because it is temperature (the total kinetic and energy stored in the nucleus of an energy that can be transferred by near another charged object stretched or compressed height above the ground moving object) **Energy stores** gravitational electrostatic thermal (or potential magnetic potential chemical internal) kinetic nuclear elastic

Examples of energy transfers and energy transfer diagrams

- Stretching a rubber band chemical energy is mechanically transferred to the elastic potential store in the rubber band
- 2. Child sliding down a slide -

Gravitational Potential store of the child

Mechanical work done by gravity increases child's speed

Mechanical work against friction

Kinetic energy of the child

Thermal energy of slide and

Energy cannot be created or destroyed, it can only be transferred usefully or dissipated (wasted). This is the Conservation of Energy

Work can be done in fields by moving a charged object in the opposite direction the attraction force.

This occurs in the following stores:

- Electrostatic
- Gravitational
- Magnetic

Objects with greater mass or more height will have more gravitational potential energy.

It will also increase in places with more gravity.



Unit 2: Mi vida en el insti - Talking about school Spanish Y9 Spring Term Knowledge Organiser

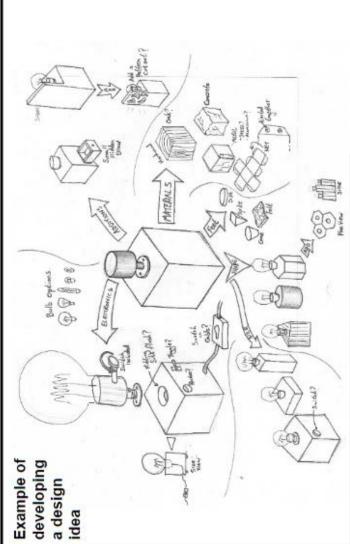
								;	
Key spellings	IIIngs 3	nos omon?	Como son tus prores ?	What are your	What are your teachers like?	Como es tu insti?	ısti?	What's your school like?	school like?
Learn these spellings, they will be	gs, they will be	Mi profe de <u>in</u>	Mi profe de inglés es/no es	My English teacher is/isn't	cher is/isn't	En mi insti hay	_	In my school there	there
really useful for this unit and you will	s unit and you will	serio/a	gracioso/a	serions	funny			is/are	
be tested on them.		severo/a	tolerante	strict	tolerant	No hay	-	There isn't/aren't	en't
1. la asignatura	school subject	paciente	impaciente	patient	impatient	Mi insti tiene/no		My school has/doesn't	s/doesn't
2. la química	chemistry	interesante	aburrido/a	interesting	boring	tiene		have	
3. el edificio	the building	simpático/a	antipático/a	kind/nice	mean	un campo de fútbol		a football field	
/ asistir	to attend	más divertido/a que.	ı que	more fun than		nn comedor		a dining hall	
4. doloui	to attend	menos creativo/a que	ne	less creative than	an	un gimnasio		a gym	
o. un intercambio	an exchange	tan justo/a como		as fair as		un patio		a playground	
Las asignaturas	s School subjects	ubjects	Ч?	or qué?	Why?	un salón de actos		a hall	
¿Te gusta?	å		porque es	porque son	:	una biblioteca		a library	
el inalés	English		because it is	because they are	v are	una piscina		a pool	
el dibnjo	art		aburrido/a	aburrido/as	boring	una pista de tenis		a tennis court	
el español	Spanish		divertido/a	divertido/as	fun	unos laboratorios		some laboratories	ries
el francés	French		práctico/a	práctico/a s	practical	muchas aulas		lots of classrooms	smo
el alemán	German		creativo/a	creativo/as	creative	El edificio es		The building is	is
el arte dramático	drama		difícil	difícil es	difficult	Los edificios son	s son	The buildings are	s are
la biología	biology		fácil	fácil es	easy	antiguo(s)	nuevo(s)	plo	
la química	chemistry		útil	útiles	nseful	amplio(s)	moderno(s)	poob	
la física	physics		importante	importante s	important	feo(s)	atractivo(s)	ugly	attractrive
la informática	IT/Computing		interesante	interesante s	interesting	grande(s)	pequeño(s)	big	small
la tecnología	design technology	ology	Remember to ad	add -s/-es for plurals	ırals	Mi insti es		My school is	
la geografía	geography		IIn infercambio	Δnο	An exchange	público	privado	state-run	private
la historia	history	Š	Vov a/Vamos a	l'm/We're coing to	oing to	masculino/	mixed	all boys/	mixed
la religión	RE	red	narticinar en un	narticinate ir	participate in an exchange	femenino		girls	
¥	믭		participal cir un intercambio	paradoara	all cyclial gc	Key	Key grammar -	The near future	fiire
¿Te gusta <u>n</u> ?	Do you like	.? <u>plural</u>	viaiar con mi clase	travel with my class	v class	I lee the near	future to talk		oing to
los idiomas	languages		conocer mis amigos	i i	meet/aet to know my friends	happen (I am	doing to eat	bappen (Lam doing to eat we are going to dance)	o dance)
las ciencias	science	isiv	visitar			This tongs is	This tongs is formed by 3 ports:		(2000)
las matemáticas	maths		Jar	arrive			le ka palilio	palts.	,
las empresariales	business studies		asistir a clases	attend classes	es		resent tense	I he present tense of IR (the verb to go)	to go)
Me gusta(n)	I like	llev	llevar ropa de calle	wear my/our	wear my/our own clothes	2. d	initive verh (e	a An infinitive verh (ending in _ar/er_ir)	įį
No me gusta(n)	I don't like	cor	comer juntos	eat together			3		(11)
Me encanta(n)	I love	ird	ir de excursión	go on a trip		+		+ Saios aro I	+000
Me chifla(n)/mola(n)	ı) I love	hac	hacer turismo	go sightseeing	Du	voy Ves		Vari graning to eat	0 eat
Me interesa(n)	I'm interested in		hacer muchas cosas	do lots of fun things	ι things			rou are going to wear	ng to wear
Prefiero	I prefer	inte	interesantes			2		ad of grieg of the low	oling to be
Odio	I hate	Va	Va a ser	It's going to be	, be	vamos	cantar	\pm	ig to sing
Remember to add	Remember to add the extra 'n' for plurals.		guay/fácil	cool/easy		Vais	comprar	\pm	You pl. are going to buy
						Van	peper	I hey are going to drink	ang to arink

	Key spellings	llings 4	¿Llevas ı	¿Llevas uniforme?	Do you wear	ı wear		Kev ara	Key gramar - Using adjectives	diectives	
	Learn these spellings, they will be	ds. they will be			uniform?	rm?	Remember #	alın vay C ad	Remember the 2 key rules for using adjectives in Spanish:	fives in Spanish	
	really useful for this unit and you will	unit and you will	Llevo/Llevamos	mos	I/we wear			ie z ney i uie	o ioi dollig adjec	uves III opaliisii	
	be tested on them.	•	Tengo que llevar	llevar	I have to wear	ear	T. Ine	agective con	I ne adjective comes <u>arter</u> the noun:	l: o ckirt pink)	
	 está prohibido 	it's forbidden	Tenemos que llevar	ue llevar	We have to	have to wear		י מושוש	una laida 10sa (iiteraliy, a shiit pilih)	a shiit piling	
	2. un éxito	a success	un jersey		a jumper		2. The a	idjective mus	The adjective must agree in gender (masculine/feminine) and	r (masculine/fer	ninine) and
	3. se debe	you must	un vestido		a dress		awnu	er (singular <i>)</i>	number (singular/plural) With the houn it describes:	oun it describes:	
	4. empiezan	they start	una camisa		a shirt			un jerse	un jersey blanc o /una raida blanc a	da biarica podine blonone	
	5. las normas	rules	una camiseta	g	a t-shirt		:	unos zapato	unos zapatos pianc os /unas medias bianc as	iculas bialicas	
	Mi día escolar	My school	una chaqueta	į.	a jacket		Adjectives do	o not always	Adjectives do not always have the same endings. Use the table below to make sure volir endings are correct:	ndings. Use the act:	table
		day	una chaqueta de punto	ta de punto	a cardigan		Moo	Form	Moon	. -	
	Vov al insti	I go to	una corbata (a rayas)	(a rayas)	a (striped) tie	ie	Masc.	rem.	masc. pr.	rem. pi.	
		school	una falda		a skirt		(un) amarillo	amarilla	(unios)	(ullas) amarillas	wollow
	a pie	on foot	unos calcetines	nes	some socks	8	hlanco	hlanca	hlancos	hlancas	white
	en bici	by bike	unos zapatos	S	some shoes	S	nedro	nedra	nedros	nedras	black
	en coche	by car	unos vaqueros	OS	some jeans		rojo	roja	roios	rojas	red
	en autobús	by bus	unos pantalones	ones	some trousers	ers	morado	morada	morados	moradas	purple
	Las clases	Lessons	unas medias	9	some tights		verde	verde	verde	verdes	areen
	empiezan a las	start at	El uniforme (es)	(es)	The uniform (is)	m (is)	azul	azul	azul	azules	blue
	terminan a las	finish at	ponito	leo	pretty	ugly	gris	gris	gris	grises	grey
5	Tenemos 5 clases	We have 5	formal	informal	formal	informal	marrón	marrón	marrones	marrones	brown
5	al día	lessons a day	elegante	práctico	smart	practical	naranja	naranja	naranja	naranja	orange
	Cada clase dura	Each lesson	(in)cómodo		(un)comfortable	table	rosa	rosa	rosa	rosa	pink
	una hora	lasts an hour	caro	barato	expensive	cheap	violeta	violeta	violeta	violeta	purple
	el recreo	break time	limita la ind	limita la individualidad	limits individuality	iduality	When using	claro (light) a	When using claro (light) and oscuro (dark) always use the masc.	always use the	masc.
	la hora de comer	lunch time	mejora la disciplina	isciplina	Improves discipline	discipline	singular adje	ctive ending	singular adjective ending: unos calcetines azul oscuro	azul oscuro	
	Las normas	as	죠	Rules			Éxitos		Ac	Achievements	
	Está prohibido	It's f	It's forbidden to		pre	practico el judo			opni op I		
	No se permite/No se debe		You're not allowed to//You mustn't.	d to//You mus	:	toco la trompeta	ta		l play the trumpet	_	
	comer chicle	chew	chew gum		ca	canto en el coro	0		I sing in the choir		
	usar el móvil	asn	use your mobile		OA	voy al club de (ajedrez)	(ajedrez)		I go to (chess) club	qr	
		4	- m		Ċ		-1-1 alithada			111-	

Las normas	Rules	Éxitos	Achievements
Está prohibido	It's forbidden to	practico el judo	I do judo
No se permite/No se debe	You're not allowed to//You mustn't	toco la trompeta	I play the trumpet
comer chicle	chew gum	canto en el coro	I sing in the choir
usar el móvil	use your mobile	voy al club de (ajedrez)	I go to (chess) club
ser agresivo/grosero	be aggressive/rude	Soy miembro del club de	I'm a member of the
correr en los pasillos	run in the corridors	teatro/lectores/ periodismo/fotografía	drama/reading/journalism/photography clu
llevar piercings	wear piercings	desde haceaños	foryears*
dañar las instalaciones	damage the facilities	El trimestre pasado	Last term
Se debe	You must	participé enun maratón/torneo	I took part ina marathon/tournament
mantener limpio el patio	keep the playground clean	/concierto/campeonato/concurso	/concert/championship/competition
ser puntual	be punctual	hice una prueba	I did a test/exam
llevar uniforme	wear uniform	gané un trofeo/un premio	I won a trophy/prize
Fs justo/No es justo	It's fair/It's not fair	toqué un solo	l played a solo
l or norman and nation.	The rules are necessary to etriet	¡Fue un éxito!	It was a success!
demasiado severas	ille lules ale llecessary/ too strict	*desde hace changes the verb to 'I have been doing' etc.	ave been doing' etc.

Year 9 – Knowledge Organiser – **Design & Technology – DESIGN**

Design and le	Design and Technology Specific Language and Terms A statement of intent for a project, created with
Design Brief	an end user in mind. A design brief should primarily focus on the results and outcomes of the design.
Specification	A list of rules to follow when designing, a specification point is the result of research into the requirements of a project
Influenced by	To use existing designers, media, products, time periods etc. to create, change and adapt a design. To be influence by.
Design Movement	A period in time where a certain style was prevalent. (see examples below)
Initial Ideas	The creation of multiple ideas, considering different ways of fulfilling the design brief
Development	To work on, add to, an improve an idea via ongoing research, and seeking further influence or understanding of an outcome.



DESIGN MOVEMENTS

Futurium 1910-1945

Art Nouveau 1886-1910

Arts and Grafts Movement 1850-1915

Design Movements Timeline

Design movements are periods in time where a certain style of design was 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 Scandinarian Modern 1936-Present Contemperary 1945-1960 Pres Act 1959-1972

Streamissing 1930-1950

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, rumiture, Jewellery, fashion, transport, and everyday objects.



Bemphis 1981-1988

Nam 1967-1978

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.



Year 9 - Knowledge Organiser - Design & Technology - DESIGN

am forth.			Isometric Drawings	Oblique Drawing Orthographic Drawing		Working Drawing
Design and Technology Specific Language and Terms	Computer Aided Design	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-distorted image.	A item is drawn in 2D in the correct proportions, it is then forced into 3D by projecting lines out at 45 degrees.	2D drawings drawn in detail and to scale. Orthographic projections provide 3 views, front, side and plan.	An accurate drawing providing all information required to make a product. Usually presented as an isometric or orthographic drawing.	Goes with a working drawing and breaks a design down into its individual parts, stating what it is to be made from and the quantity required of each part
Design 8	САБ	Isometric Drawing	Oblique Drawing	Orthographic Drawings	Working Drawing	Parts List

Year 9 - Knowledge Organiser - Design & Technology - TOOLS/MACHINERY

	HAND TOOLS	STOC		MACHINERY	ERY		CUT	CUTTING
	1	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)		- the	Used to 'turn' material (rotates)			Spinning cutting tool removes wood as in is move along a
		Tenon Saw (timber)		Lathe	A tool or bit is used to shape the rotating material There are wood and engineers (metal) lathes		Router	surface Used to create slots, grooves or fancy edges
		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
58	1	o d				1		 blades and speed can be changed to suit material
			6	Disc	Rotating abrasive disc removes material			Blade is one continuous flexible loop
	P	Woodwork		Sander	Used for timber and plastics		Bandsaw	Mainly used for timber but blades can be changed to cut plastics
		Vice	1		Used to apply heat along an area of thermoforming			call cut straight of cutved intes
	P	Hand Clamp		Strip Heater	plastic allowing it to be bend along a line Process is called line bending	Les brots	Table Saw	Circular blade rotates through the table surface Used to make straight cuts only Mainly used to cut boards to size
					A rotating drill bit can be			
		Glass Paper		Pillar Drill	lowered into a work piece to create holes Work must be secured to the table.	THE STATE OF THE S	Laser Cutter	Can be used for multiple thin materials Requires designs to be created on a computer first

Year 9 - Knowledge Organiser - Design & Technology - MATERIALS

790		Plastics	fics				Timber	
	Type	Example of	Advantages	Disadvantages	Type	Example of	Advantages	Disadvantages
	Acrylic	Thermo-formin g (shaped with heat)	Avallable in many colours and styles Weather proof Can be laser cut	Brittle Scratches easily Made from oil - unsustainable	Pine	Softwood	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 aesthetic Extremely durable	Generally harder to
-2.6		Metals	tals		Mahogany		Easy to maintain High strength	Less sustainable as slower growth rate
5	Type	Example of	Advantages	Disadvantages		Hardwood		
9	Steel	Ferrous	Relatively cheap Widely available	Rusts Requires a surface				
		(Contains Iron)	Strong/Tough	finish	Plywood		Available in large	
	Aluminium	Non-Ferrous (Does not contain iron)	Does not rust Lightweight Easy to cut and shape	Relatively expensive	1000 minutes of 1000 minutes o	Manufactured Board	sheets Good strength and durability Can be laser cut	More expensive than other board options Edges can splinter
	Copper	Non-Ferrous (Does not contain iron)	Good conductor of heat and electricity	Corrodes Relatively expensive				
	Pewter	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

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 Moulded plastic then cools and becomes rigid. Used to create items like; plastic buckets and clamped above the bed and heated until soft 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. Shaping Plastics Forming Moulding Injection Vacuum



cast in pewter Two leaves

A heating element softens a

thermoforming plastic

Process is called Line

Bending

 Joins can be riveted, soldered, brazed etc

	Health & Safety	Fety 💮			1
	Design and Technology Specific Language and Terms	ology Specific L	anguage and	d Terms	
Marx	Health and Safety	Anything to do with a persons wellbeing is any given situation. From sitting at a computer for long periods to operating machinery.	with a person ion. From sitt ng periods to	s wellbeing ing at a operating	
	Risk Assessment	A document that considers all risk to a person/s carrying out a task, and all contraeasure put in place to minimize or remove risk to health, this could be training, following certain rules or using PPE	nt considers all gout a task, place to minit nealth, this congentation of certain rule	Il risk to a and all conl mize or uld be es or using	E E
Market Sea	PPE	Personal Protective Equipment Googles, aprons, dusk masks, gloves	tive Equipme s, dusk mask	ent s, gloves	
147157	Extraction	Can be dust extraction when using machinery or fume extraction when gluing or painting.	traction when me extraction	using when gluin	Ĕ

2



Casting	5 0 10	Die Casting	-

ince cooled it can be removed and any seems

tidied up

Material is melted and pours into a mould

Used to cast metals or thermoforming plastics

Once set the item is removed

from the jig and trimmed to

and held in a jig to keep them

Lamination

in the desired shape.

Thin strips are glued together

shape and held in place until

Woods can be bent by

laminating

This can then be bent to

(acrylic) along a line.

Strip Heater

Bending Materials

Sheet metal

Year 9 – Knowledge Organiser – **Design & Technology – CAM**

COMPUTER AIDED MANUFACTURE

Ad	Ac	Ö	M
RY		Laser	
MACHINERY		la L	1

Advantages	Disadvantages
Accurate to low tolerances	Expensive to set up
Quick – rapid prototyping	Requires Specialist Training
Multiples can be produced easily	Job loss to automation



Interlocking laser cut toy in plywood



Printing

30



Stickers

Viny

Acrylic



Felt

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

Plywood





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

Red

Laser moves quickly at a low power Black = Laser engrave

Laser moves slowly at high power

= Laser cut

Other colours can be set up and used as required



Notes Page

Notes Page