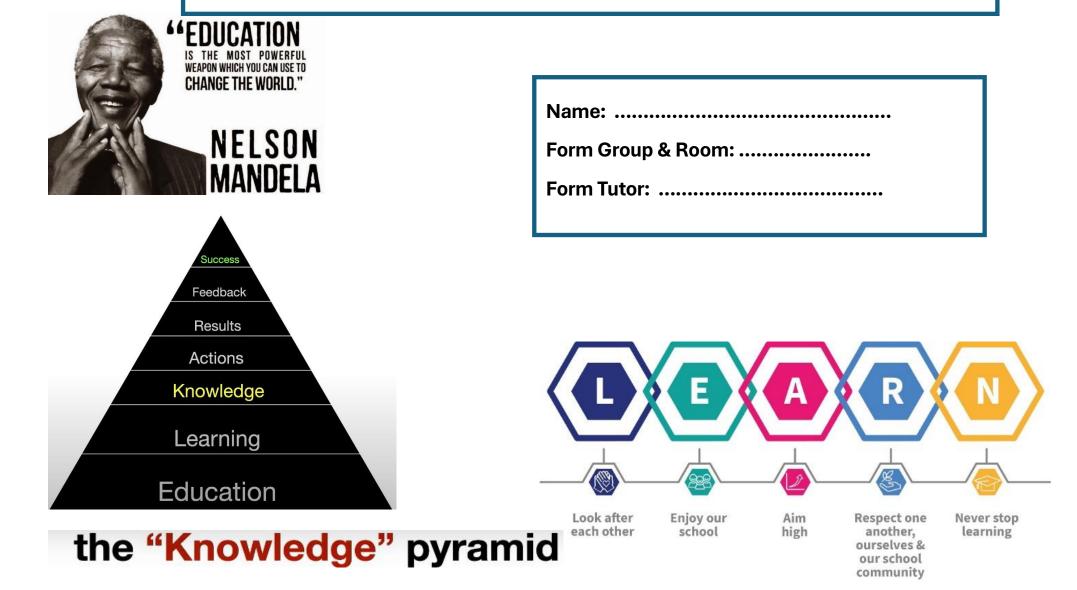


Westhoughton High School

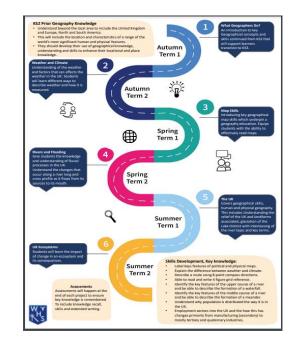
Year 8 – Summer Term - Knowledge Organisers



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Introduction

The curriculum in each of your subjects at WHS has been carefully planned to help you learn new things, building upon what you know and preparing you for learning in the future. This is mapped out as a learning journey which each teacher will share with you, so you understand how your learning fits together as a whole. Each subject's roadmap is here https://www.westhoughton-high.org/subjects/.

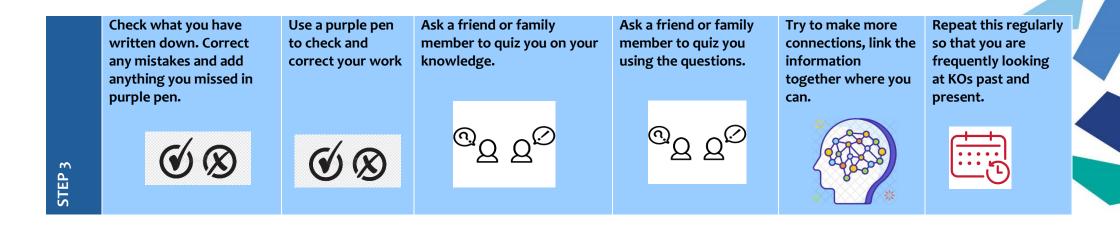


This booklet contains knowledge organisers for the topics you will study in each subject this term. These give an overview of the essential knowledge that you MUST remember to be as successful as possible in Year 8 and as you move through each year of school. Your teachers will expect you to use them during lessons to find out about what you are going to be learning in a new topic, to retrieve information during a connect activity – connecting your brain to what you are going to learn that lesson and to test yourself or others to recall knowledge. You will also use them to complete home learning activities, to regularly revise from so that you begin to remember more knowledge over time, to discuss what you have been learning with family and friends and to catch up on any learning you might have missed due to absence. You must bring your booklet to school every day and keep it safe at the end of each term as you will continue to use it to support ongoing revision.

Learning Techniques to use with KOs – using them regularly is vital to make knowledge stick in your long-term memory (remember you need to revisit information at least 10 times before it is embedded in your memory).

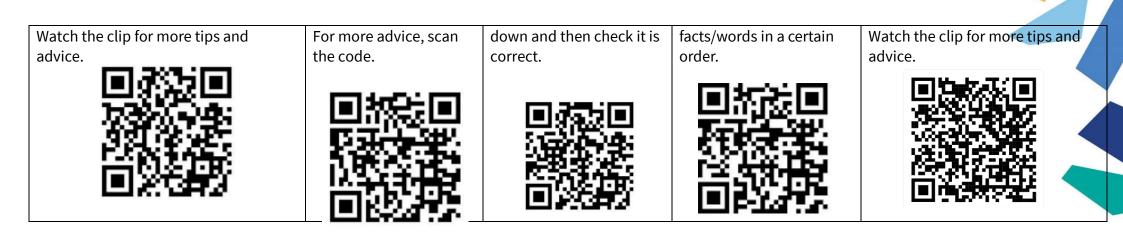
Try using these ideas	, choose different technique	es to learn small sectior	s of knowledge each day.
ing these lacas	, enouse amerene ceeninga	co to tearn onnatt section	is of the meage cach adj.

	Look, Say, Cover, Write, Check	Key Word Definitions	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
	Look at and read aloud a specific area of your KO.	Write down the key words and definitions in two columns.	Use your KO to condense and write down key facts or information onto flash cards.	Use your KO to create a mini quiz. Write down your questions relating to the information.	Create a mind map with the information on your KO.	Ask a partner, friend or family to use the KO or your flash cards.
STEP 1					- - - - - - - - - - - - - - - - - - -	<u>?</u> ?
	Cover or flip the KO over and write down everything you remember.	Repeat the above but don't look at your KO	Add pictures that might help you remember. Then self- quiz using the flash-cards.	Answer the questions, remember to use full sentences.	Check your KO to make sure there are no mistakes on your mind map.	Make sure they test you on different sections of the KO and also on previous topics.
STEP 2	×=				Ś	

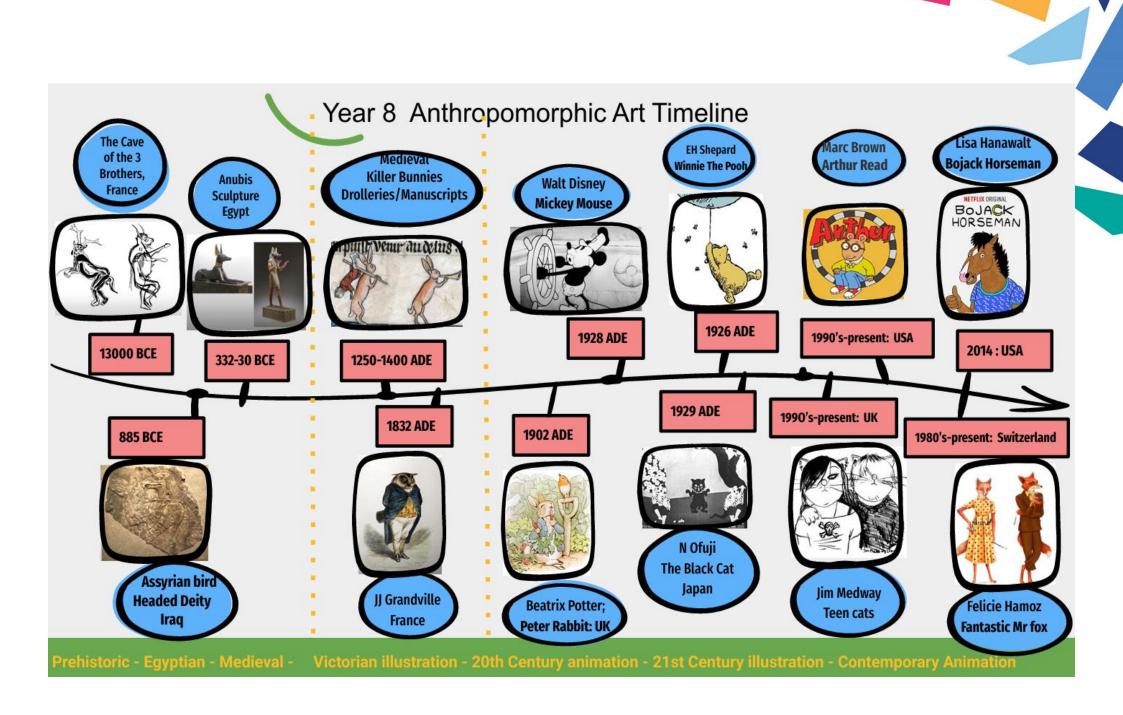


How to make learning stick...

Mind Mapping	Flash Cards	Look, Say, Cover, Write, Check	Key Word Mnemonics	Revision Clocks
Wind mapping is a great way of representing key information from a topic in a visual way. Use colour and images to represent the knowledge 	Make flash cards using your KO. Write a question on one side and the answer on the other or record keywords and definitions. Test yourself frequently.	Look Say Say Write Write Write Cover This technique is one that has been well used from primary school upwards. It is useful for rehearsing keywords, definitions and spellings. Look at the information, read it aloud, cover it up, write it	Mnemonic for the Planets My Mercury Very Venus Educated Earth Mother Mars Just Jupiter Served Saturn Us Uranus Nine Pluto A mnemonic is a sentence you make up where each word begins with the same letter as the word you want to remember. It is a useful technique for remembering a group of	France of the section



5		
Year 8 - ART	Year 8 key words	;
	Imaginative drawing	Imaginative drawing is the act of drawing images that you think of in your head.
	Mark making	Mark making describes the different lines, dots, marks, patterns, and textures we create in an artwork.
Color Wheel Vellow orange Vellow o	Expressions	a look on someone's face that conveys a particular emotion. "a sad expression"
BLUE GREEN BLUE GREEN DE LUE	Characterisation	the creation or construction of a fictional character.
BUD B	Stance	the way in which someone stands, especially when deliberately adopted (as in cricket, golf, and other sports); a person's posture.
Story tellin	Story telling	Artists can present narrative in many ways—by using a series of images representing moments in a story, or by selecting a central moment to stand for the whole story. Narrative works often illustrate well-known historical, religious, legendary, or mythic stories.



Computer Science — CyberSecurity

Data Protection Act

ALL ORGANISATIONS USING AND STORING DATA MUST ABIDE BY THE FOL-





TO FIND OUT WHAT INFORMATION THE GOVERNMENT AND OTHER ORGANISATIONS STORE ABOUT YOU.

The Computer Misuse Act (1990)

and its amendments were created so that unauthorised access to computers and crimes committed using a computer could be prosecuted. The act is based on three principles and makes the following actions illegal:

PRINCIPLES	LEGAL ACTIONS
Unauthorised access to digital/computer material. This means a person asking a computer to perform any func- tion with the intent of accessing anything on the com- puter for which they do not have permission, and for which they know they do not have permission.	Punishable by up to two years in prison and a £5,000 fine.
Unauthorised access to digital/computer material with	Punishable by up to five
intent to commit or facilitate the commission of further	years in prison and an un-
offences. This means a person gaining access to a com-	limited fine determined by
puter without permission in order to commit another	the damage caused and the
crime or to enable someone else to commit a crime.	severity of the crime.
Unauthorised acts with intent to impair, or with reck-	Punishable by a prison sen-
lessness as to impairing, the operation of a computer.	tence of up to ten years and
This means a person intentionally impairing the opera-	an unlimited fine, but if the
tion of any computer or program, or intentionally pre-	act puts life at risk or endan-
venting access to any data or program on any comput-	gers national security, the
er. This includes creating or supplying materials that	sentence may be extended
could be used to carry out this offence.	to life imprisonment.

Social Engineering

Social engineering is a set of methods used by cybercriminals to deceive individuals into handing over information that they can use for fraudulent purposes.

How might a hacker use the data you submitted?

Name of first pet / Favorite colour/ Mother's maiden name / Favorite band or artist / Date of birth / Name / Email address

Shouldering (also known as **shoulder surfing**) is an attack designed to steal a victim's password or other sensitive data. It involves the attacker watching the victim while they provide sensitive information, for example, over their shoulder. This type of attack might be familiar; it is often used to find out someone's PIN at a cash machine.

Phishing Attack

A **phishing attack** is an attack in which the victim receives an email disguised to look as if it has come from a reputable source, in order to trick them into giving up valuable data. The email usually provides a link to another website where the information can be inputted.

Phishing: Key indicators of a phishing email

- Unexpected email with a request for information
- Message content contains spelling errors
- Suspicious hyperlinks in email

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- Text that is hyperlinked to a web address that contains spelling errors and/or lots of random numbers and letters
- Text that is hyperlinked to a domain name that you don't recognise and/or isn't connected to the email sender
- Generic emails that don't address you by name or contain any personal information that you would expect the sender to know

DoS/DDoS

Denial of service attack (DoS) This is a cyberattack in which the criminal makes a network resource unavailable to its intended users. This is done by flooding the targeted machine or website with lots of requests in an attempt to overload the system.

Distributed denial of service attack (DDoS) This uses the same concept as a DoS attack, but this time it is **multiple computers** making the attacks at the same time. It is a lot harder to: Stop the attack by simply blocking a single source or Identify who is responsible, as lots of machines are making requests, many of them because they are infected by malware.

Blagging

Blagging (also known as **pretexting**) is an attack in which the perpetrator invents a scenario in order to convince the victim to give them data or money. Hacking *in the context of cyber security* is: **Gaining unauthorised access to or control of a computer system**

Why might people want to hack? To steal data / To disrupt services / For financial gain / For political reasons (espionage and activism)/ For fun (planting the flag) / For ethical reasons

Brute force attack This is a form of attack that makes multiple attempts to discover something (such as a password).

Internet bots - Bots are automated programs that perform tasks repeatedly. Bots are a crucial part of the internet's infrastructure and perform useful tasks .

Protection Methods

Firewalls A firewall checks incoming and outgoing network traffic. It scans the data to make sure it doesn't contain anything malicious and that it follows the rules set by the network.

Anti-malware Anti-malware is software that scans any file that is able to execute code. The anti-malware will have a list of definitions of sequences of code that they are aware are malicious. If the code in your files matches the definitions, the files are quarantined.

Auto-updates Auto-updates refers to software that automatically checks for available updates for the software you have on your computer. Once it finds an update, the software can be set either to alert the user or to install it automatically. This software is often included with an operating system.

User permissions Users on a network can be put into groups, with each group having a unique set of privileges, such as: Which network drives they have access to, Their read/write permissions, Which printers they are able to use, What software they can use, Which websites they are allowed to access

Malware

Typical actions of malware include deleting or modifying files.

Brute Force Attack / Bots

Spyware—secretly monitors user actions, e.g. key presses, and sends information to the hacker. Some spyware can even use your webcam without your knowledge.

Viruses—spreads through normal programs and might slow down your device or change your applications and documents.

Worms— spread from device to device and copy themselves hundreds of times. A worm might copy itself onto your email account and then send a copy to all of your email contacts!

Trojan horse— pretends it will be a useful and safe program, when actually it will try to attack your device.

Adware—displays adverts while it is running; some can serve as spyware, gathering information about you from your hard drive, the web sites you visit, or your keystrokes.

COMPUTING — EduBlocks

https://edublocks.org

KEY TERMS

Term 6

Execute	When you carry out the program
Condition	When something has to happen for the program to work
Sequence	Parts of the code that run in order and the instructions for our code
Selection	Using logical tests to change the flow of the sequence
Iteration	Using loops to repeat sequences of code Code is repeated (looped) while something is true or for a number of times
Variable	A value that can be changed e.g. speed, lives, score.
Constant	Something that's stays the same in a program
Data Type: String	A sequence of characters that can include letters, numbers, symbols
Data Type: Integer	Whole numbers with no decimal point.
ata Type: Float	Decimal Numbers
Input	Something that is entered into the program
Output	Something that comes out of a program
Loop	A way of repeating code (iteration). They are limited to certain data types.
While Loop	A "While" Loop is used to repeat a specific block of code an unknown number of times, until a condition is met
For Loop	For loop is a programming language conditional iterative statement, which is used to check for certain conditions and then repeatedly execute a block of code as long as those conditions are met
IF, Else, Elif	The if/else statement executes a block of code if a specified condition is true. If the condition is false, another block of code can be executed
Functions	A function is a command which contains the steps needed to perform a task
Subroutines	a set of instructions designed to perform a frequently used operation within a program
Pattern	Repeating sequences of code.
RGB	Colours: red, green and blue
Function	Inbuilt code is a command which contains the steps needed that performs a specific task.

Drawing Patterns

Year

Patterns are repeating sequences of code.

Why are Functions Useful

👹 Why are functions useful?

Functions are powerful tools. They are subroutines, small sequences of code inside the main code.

We can call the function, and come out of the main code, do the function, then come back to the code.



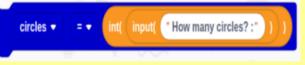
They enable us to reuse sections of code. They keep our code tidy, and with

fewer lines to write. In our code we can draw any shape using one section of code.



rinket 🕬 🖘

Variable Names



Above is a variable called circles-Circles is the name of the variable.

The data type is integer.

Loops Some loops run forever like this one (indefinite iteration). It will print Hell World



Coding

Program: A human instructing the computer what to do. – *computers require clear instructions to work correctly.*

All programming languages have the same concepts.

EduBlocks	A visual block based programming tool that helps to introduce text based programming languages
Python	A text based programming language
Programming Code	The process of writing computer programs . The instructions that you write to program a computer
Algorithm	A set of rules/instructions

Logical Thinking - Comparative Operators

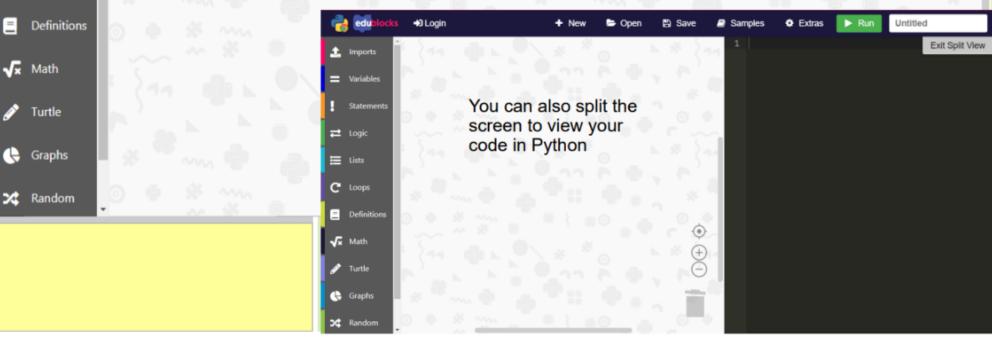
==	Equal to (compare 2 values)
i=	Not equal to
<	Left value is less than the right value.
>	Left value is greater than the right value.
>=	Left value is greater than or equal to right value.
<=	Left value is less than or equal to right value.
Arithmetic O	perators
+	Addition
-	Subtraction
•	Multiplication
/	Division
11	Integer division
%	Remainder
**	Exponent

COMPUTING — EduBlocks

edublocks	→ Login + New > Open 🖹 Save 🖉 Samples 💠 Extras > Run Untitled
1 Imports	
Variables	The Edublocks interface is simple.
Statements	On the left we have all of the blocks that we can use to write code.
≓ Logic	The blocks are placed in the coding area in the centre of the screen.
🗮 Lists	Blocks can be dropped in the "bin" to delete them.
C Loops	

Year

Term



√x Math

🔌 Turtle

Computing

Key terms

Podcast: A digital <u>audio file</u> made available on <u>the Internet</u> for <u>downloading</u> to a computer or mobile device, typically available as a series, new instalments of which can be received by <u>subscribers</u> automatically.

Audio: Sound

Voiceover: A piece of narration

Special effects: A sound that is created to represent something real (such as an explosion) or imaginary (such as a monster)

Purpose-The reason for which something is done or created or for which something exists.

e.g. "...the purpose of the interview is to appoint a new Manager"

Download: the transmission of a file or data from one computer to another over a network

Copyright, Designs and Patents Act

Audience Examples:

Young children (4 - 10)	Retired people
Children (8 - 12)	Old aged people (65+)
Teenagers (13 - 19)	Females
Young adults (15 - 25)	Males
Adults Non	- English speakers
People with addition	onal needs

The different purposes of podcasts

TPS-Can you name some purposes people listen to podcasts? To......

Reassure Entertain Linspire Inform Warn A Persuade Educate Instruct Associate (jingle)

What is the main purpose of a business?

Profit

How would a podcasting business make money?



Followers Popularity Sponsorship Advertising

SOME PODCASTS CAN HAVE MORE THAN ONE PURPOSE



Subject: Year 8 Design and Technology Topic: CAD/CAM & Automation

What is CAD/CAM?

- CAD stands for Computer-Aided Design
- CAM stands for Computer-Aided Manufacturing
- · CAD/CAM is the use of computer software to design and manufacture products

Uses of CAD/CAM in Design and Technology:

- Designing 2D and 3D models of products
- · Creating and modifying product designs quickly and easily
- Simulating and testing product performance
- Automating the manufacturing process
- · Controlling CNC machines to produce products accurately and efficiently

CAD Software:

- Examples of CAD software include AutoCAD, SolidWorks, and SketchUp
- CAD software allows designers to create and modify 2D and 3D models of products

CAM Software:

- Examples of CAM software include Mastercam and Fusion 360
- · CAM software allows manufacturers to create toolpaths for CNC machines to cut and shape products

CNC Machines:

- CNC stands for Computer Numerical Control
- · CNC machines use CAM software to control the movement of cutting tools to shape products
- Types of CNC machines include mills, lathes, routers, and plasma cutters

Key Terminology

CAD (Computer-Aided Design): The use of computer software to create, modify, and optimize designs.

CAM (Computer-Aided Manufacturing): The use of computer software to control and automate manufacturing processes.

3D Printing: A manufacturing process that creates three-dimensional objects by depositing layers of material, typically plastic or metal.

CNC (Computer Numerical Control): A system that uses computer software to control the movement of machine tools and other equipment used in manufacturing.

Rapid Prototyping: The process of quickly creating physical models or prototypes of designs using CAD and 3D printing technology.

Laser Cutting: A manufacturing process that uses a high-powered laser to cut and shape materials such as wood, plastic, and metal.

Product Design: The process of designing products from concept to production, including the creation of sketches, prototypes, and technical drawings.

Advantages of CAD/CAM:

- Increased design accuracy and precision
- Faster product design and development
- Improved product quality and consistency
- Increased manufacturing efficiency and productivity
- Ability to create complex shapes and geometries

Disadvantages of CAD/CAM:

- Expensive software and hardware costs
- Steep learning curve for users
- Dependence on technology for the design and manufacturing process
- Limited flexibility for customisation during the manufacturing process





Safety considerations:

- · Proper training and certification required for operating CNC machines
- Proper maintenance and inspection of machines to prevent accidents and injuries
- Use of personal protective equipment (PPE) such as safety glasses and gloves
- Safe handling and disposal of materials and waste produced during manufacturing process.



Key Historical Events:

- 1. First Industrial Revolution (1760-1840)
- 2. Second Industrial Revolution (1870-1914)
- 3. Third Industrial Revolution (1960-1980)
- 4. Fourth Industrial Revolution (2010 -present)

Automation: Where does Automation take place?

- Manufacturing and production lines
- Warehouses and logistics
- Transportation and delivery systems
- Agriculture and farming

Key areas of Automation

- 1. Automation: The use of technology to perform tasks without human intervention.
- 2. Robotics: The design, construction, and use of robots to perform tasks.
- 3. Sensors: Devices that detect changes in the environment and provide a corresponding output signal.
- 4. Control systems: Systems that manage and regulate the operation of machines or devices.
- 5. Programmable Logic Controllers (PLCs): Electronic devices that automate industrial processes by controlling the operation of machines and equipment.
- 6. Industrial Revolution: A period of major industrialisation that occurred in the 18th and 19th centuries.
- 7. Industry 4.0: The fourth industrial revolution, characterised by the integration of advanced technologies like automation, artificial intelligence, and the internet of things (IoT) into industrial processes.

What is 2D Design software program?

- 2D Design is a software program used for creating and editing vector graphics.
- Vector graphics are images created using mathematical equations that allow them to be scaled up or down without losing quality.

Tools and features of 2D Design software program:

- · Drawing tools: line, curve, circle, rectangle, polygon, and text.
- Editing tools: move, rotate, scale, mirror, and trim.
- Fill and stroke options: colour, gradient, and pattern.
- · Layers: used to organize and manage different elements of the design.
- Grids and rulers: help with precision and alignment.
- Import and export options: allow for sharing and transferring designs with other software programs.

Uses of 2D Design software program:

- Creating graphics for logos, posters, and advertisements.
- Designing patterns for textiles, wallpaper, and packaging.
- Engineering and architectural drawings.
- · Creating digital artwork and illustrations.
- Designing prototypes and models for manufacturing.

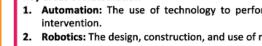




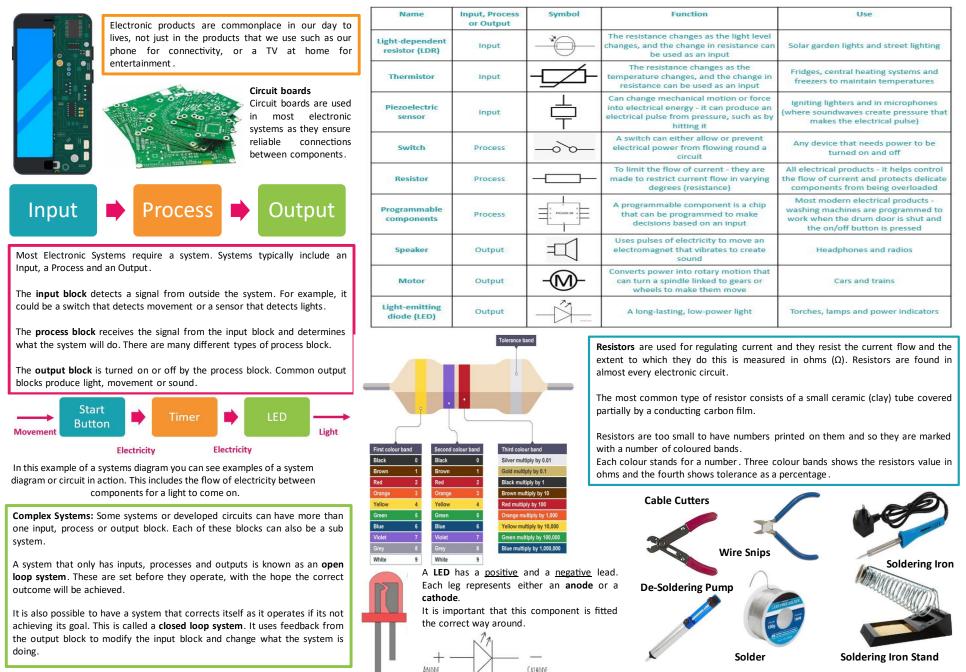


Healthcare and medical devices





Subject:Year 8 Design and Technology **Topic**:Electronics and Systems



Subject: Food Technology

A balanced diet

A balanced diet is based on the Eatwell Guide. An unbalanced diet can lead to dietary related disease.

Diet and health

There is a link between a poor diet, and the risk of developing some diseases.

This includes the risk of:

- cancer;
- coronary heart disease (CHD);
- bone health;
- anaemia.



Energy from food

- Energy intake is measured in joules (J) or kilojoules (kJ), but many people are more familiar with Calories (kcal).
- Different macronutrients, and alcohol, provide different amounts of energy.

- There are two different types of nutrients:
- macronutrients;
- micronutrients.

There are three macronutrients that are

essential for health:

- carbohydrate;
- protein;
- fat.

There are two types of micronutrients:

- vitamins;
- minerals.

Obesity

People who are obese are more likely to suffer from CHD, type 2 diabetes, gall stones, arthritis, high blood pressure and some types of cancers, i.e. colon, breast, kidney and stomach.

Inactivity

It is also important that the amount of time being sedentary is reduced.

Over time, sedentary behavior can lead to weight gain and obesity, which can increase the risk of developing chronic diseases in adulthood.

Topic: Nutrition

Energy balance

To maintain body weight it is necessary to balance energy intake (from food and drink) with energy expenditure (from activity).

Energy out



Energy in > Energy out = Weight gain



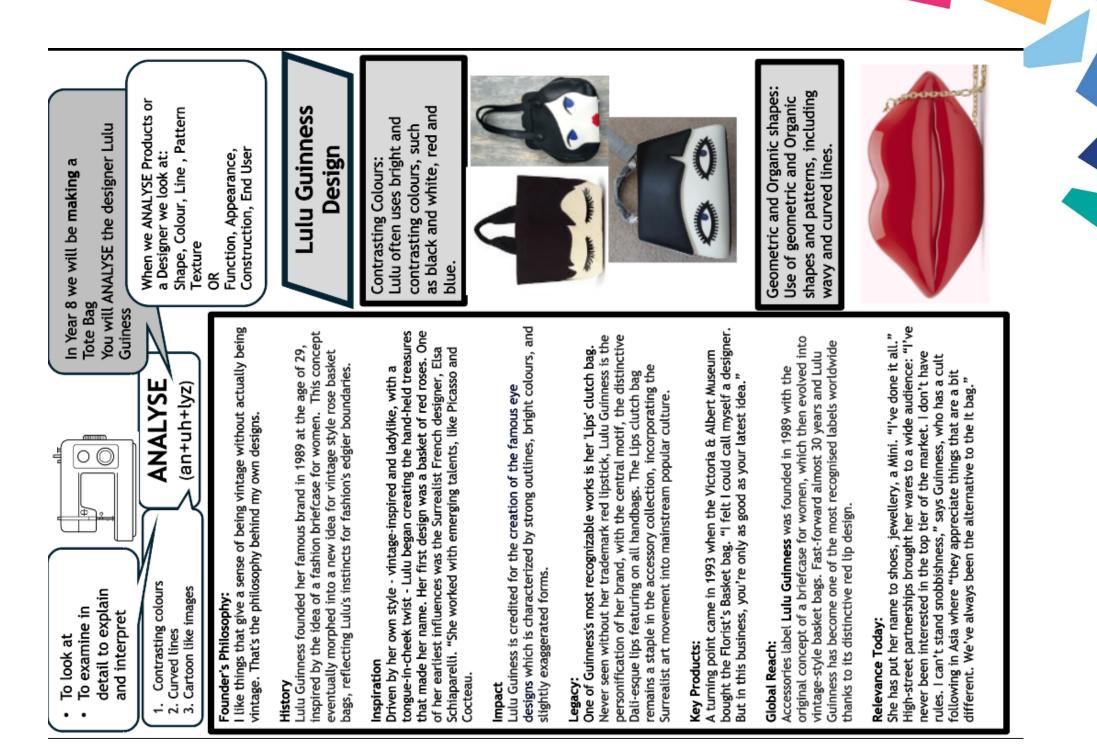
Key Terminology

Energy: The power the body requires to stay alive and function.

Digestion: The process by which food is broken down in the digestive tract to release nutrients for absorption.

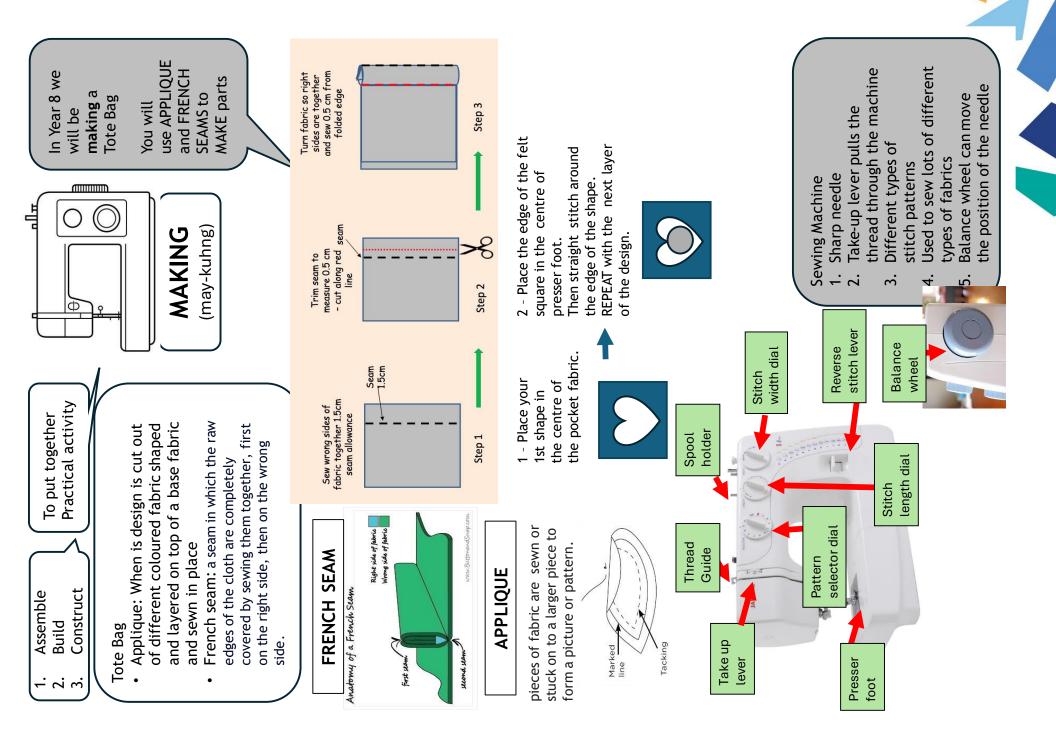
Macronutrients: Nutrients needed to provide energy and as the building blocks for growth and maintenance of the body.

Micronutrients: Nutrients which are needed in the diet in very small amounts.



To judge the quality and performance of a product	of function	In Year 8 we will be EVALUATING your outcome You will look at the successes of
1. Assess 2. Judge 3. Gauge	EVALUATE (uh·va·lyoo·ayt)	JUATE Jooo could do differently next time lyoo ayt)
Evaluate Step	Definition	Question stems
Function	Work or operate in a proper or particular way.	Does it do the job? What is the function and purpose of the product? How well does it work? Could it be improved?
Appearance	The way that someone or something looks	Does it look like your original design? What does the product look like? What is the colour, texture, pattern and decoration of the product? Is the colour/texture of the product effective? is it what the customer wants? Does the product look good? Is it stylish? Is the style to the customers liking.?
Construction	The action of building or making something	What materials and components have been used to make the product? Why were these materials and components used? How has the product been made? What joining methods/ techniques have been used? Is the product well-constructed or will it fall apart when in use? Will it scratch easily?
End User	A person or other entity that consumes or makes use of the goods or services produced	Did the design link to the user? Who would buy the product and when would they use it? How well does the product do its job when compared to others? How marketable is it to the user?
 Statement Statement 	Statements made are backed up with evidence Statements are written in sentences with com	Statements made are backed up with evidence Statements are written in sentences with comments that are

- relevant.
 - Discussed the positive and negatives
 - Clear PEE structured used • •
 - •
- Connectives used Purposeful facts useful information identified •

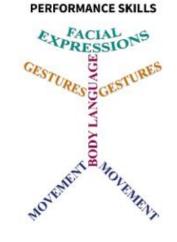


Year 8 Drama Knowledge Organiser - Commedia Dell'arte

Commedia

You will be exploring an Italian style of theatre from the 1500s which has continued to influence drama today. You will be focusing on body language, use of gesture and learning how to perform wearing a mask. Tasks for this topic:

- Appling exaggerated body language to a piece
- Learn the illusion rules for masked performance
- Learn to stances for and perform as the set
 Commedia Dell'arte characters





Performance Techniques	
Lazzo	Scripted routine
Illusion rules	Rules to follow to create effective masked performance work
Stock character	Character archetype
Pantomime	A comedy style of staged production which encourages audience participation

	verview: Written in approximately 1595, Shakespeare's Romeo and Juliet is set in Verona, Italy and follows an age-old vendetta een two powerful families which tragically erupts into bloodshed, leading to the untimely deaths of two star-crossed lovers.		/mbols agger Light/Dark
Act	Plot Summary		
Act 1	 The play opens with a fight between the Capulets and the Montagues. The fight is stopped by the Prince who warns both families that any more fighting will be punishable by death. Romeo reveals to Benvolio that he is in love with Rosaline, but she doesn't love him in return. Mercutio encourages Romeo to gatecrash the Capulet Ball to cheer him up. Tybalt, Juliet's cousin, spots Romeo and is outraged that a Montague has turned up. He threatens to fight him but is stopped by Lord Capulet. Romeo meets Juliet for the first time, and they kiss. They then both find out who the other is and are separated. 	Big	deas
Act 2	 Later that night, Romeo climbs over the orchard wall into the Capulets' garden to see Juliet at her window. They tell each other that they love each other and decide to meet the next day to get married. Romeo asks Friar Laurence to perform the marriage ceremony. He agrees, believing the marriage might help end the feud between the two families. The Nurse agrees to be present at their secret wedding. Romeo and Juliet meet in secret at Friar Lawrence's cell, and they get married. 	Love An intense feeling of deep affection.	Violence Behaviour involving physical force intended to hurt, damage, or kill someone
Act 3	 Tybalt, still angry with Romeo for gatecrashing the Capulet Ball, challenges Romeo to a duel which ends with Mercutio being stabbed after Romeo gets in the way. In a fit of rage, Romeo kills Tybalt. The Nurse tells Juliet that her cousin, Tybalt has been killed. At first, Juliet curses Romeo's name but quickly realises she needs to stand beside her husband and so the Nurse agrees to get a message to Romeo. Romeo is hiding at Friar Laurence's cell and is given the news he has been banished. Romeo says that being banished is worse than being killed as he won't be able to see Juliet. Lord Capulet arranges for Juliet to marry Paris in three days' time. Juliet refuses and Lord Capulet threatens to disown her if she doesn't agree. When they are alone, the Nurse tries to convince Juliet to forget Romeo and marry Paris. Juliet decides to visit Friar Lawrence. 	Honour Having or showing a high respect for something or someone.	Rebellion The action or process of resisting authority, control, or convention.
Act 4	 The Friar devises a plan where Juliet will take a potion that will make her appear dead. Friar Lawrence plans to let Romeo know the truth via a message so he can collect her from the Capulet family tomb. Juliet returns home, agrees to Marry Paris a day earlier than planned and then takes the potion, appearing dead immediately. Her body is taken to the Capulet tomb. 	Patriarchy	Fate
Act 5	 Romeo learns of Juliet's 'death' from his servant Balthazar and is devastated. He buys some poison from an apothecary and returns to Verona to visit Juliet's tomb. Friar Lawrence realises Romeo did not get his original message detailing the plan. He quickly rushes to the Capulet tomb. When Romeo gets to the tomb, he sees Paris and kills him. Romeo sees Juliet's body and believing she is really dead, takes the poison and dies. When Juliet wakes up, she takes Romeo's dagger and stabs herself. The Prince arrives and discovers the dead bodies in the tomb. Capulet and Montague agree to end the feud. 	A society controlled by men, often excluding women.	Events outside of a person's control, regarded as predetermined by a supernatural power.

X		5		IER TERM KNOWLEDGE ORGANISER: WAYWARD SOULS JULIET BY WILLIAM SHAKESPEARE	
	Key Cha	aracters		Context – We must understand the influences	of the world we live in when examining texts.
Juliet	Juliet Capulet Protagonist / tragic hero / Lord Capulet's only daughter/ decisive / passionate / headstrong	Romeo Montague Protagonist / tragic hero / Lord Montague's only son/ sensitive / impulsive / passionate	Romeo	Femininity Femininity refers to the qualities or attributes regarded as characteristic of women or girls. It was expected that females displayed 'traditional' feminine qualities such as subservience, obedience and sensitivity.	Masculinity Masculinity refers to the qualities or attributes regarded as characteristic of men or boys. It was expected that males displayed 'traditional' masculine qualities such as strength, aggression and stoicism (hiding
Lord Capulet	Lord Capulet Head of the Capulet household / dominant / aggressive	Lord Montague Head of the Montague household/ devoted	Lord Montague	Shakespeare supports and challenges these expectations with Juliet, who is both emotional yet rebellious, and Lady Capulet, who allows her daughter to be mistreated rather than standing up to Lord Capulet.	emotions). Shakespeare supports and challenges these expectations through Romeo, who is sensitive but violent, and Tybalt who is passionate and volatile. Star-Crossed Lovers
Lady Capulet	Lady Capulet Juliet's mother/ timid/ selfish	Lady Montague Romeo's mother/ caring / compassionate	Lady Montague	Power of the Patriarchy During Shakespearian times, women were seen an objects or possessions. Once a female was married, her ownership transferred from her father to her husband.	The term "star-crossed lovers" refers to two people who are not able to be together for some reason e.g. Romeo and Juliet. Lovers, whose relationship is
Tybalt	Tybalt Juliet's cousin/ strong-willed/ passionate/ loyal/ argumentative	Benvolio Romeo's cousin/ sensible/ peacekeeper	Benvolio	Women were expected to obey their father and/or husband, as it was believed that men were logical and made better choices than women. In the play, Juliet is seen as a rebel when she	doomed to fail, are said to be "star-crossed" (frustrated by the stars) because it was claimed that the stars
Nurse	The Nurse Juliet's nurse/ kind/ loving/ mother figure to Juliet	Mercutio Romeo's best friend/ loyal/ funny/ devoted	Mercutio	refuses her father's order to marry Paris. Social Expectations In 16 th Century England society was expected to follow rigid rules and norms e.g. upholding	control human destiny. Morality The social standards of good or bad behaviour. 16 th Century
Prince	The Prince Prince of Verona/ imposing/ formal/ moral	Friar Lawrence A priest/ religious man in Verona /moral/ kind/ optimistic	Friar Lawrence	family honour was of the greatest importance to a man. The long-standing feud between the Montagues and Capulets strengthens family loyalty and justifies violence.	England was a Christian country and most of Shakespeare's characters attempt to uphold Christian values. Romeo and Juliet's death is such a shocking event, as it is considered a sin and therefore immoral to take human life.

	YEAR 8 SUMMER TERM KI	NOWLEDGE ORGANISER: L ACCURACY & KEY DEVI		
۴۲.	OUR FOR MORE'-THE 4-PART SUCCESS STORY	Device / Fe	ature/ Skill	Tenses
Part SETTING	Key Features Introduce your story by focusing on the setting Describe the weather / environment / surroundings / objects	Metaphor You Describing something by stating it is something else Sunshine	Symbolism Objects, colours, sounds, places that represent another idea	PAST Something that has already
CHARACTER	 DEVICES: Personification / pathetic fallacy / symbolism / prepositions Describe your character(s) within your setting One or two characters - keep it minimal Craft their actions / behaviour to reflect their personality 	Juxtaposition Contrasting ideas / images	Personification Giving living qualities to something non-human	happened Had / went / said / walked PRESENT Something that is currently
FLASHBACK	 and emotions DEVICES: Sensory language / similes / metaphors / minimal dialogue Include a flashback to teach the reader something about your character and / or their world 	Show Not Tell Describing a character through their actions and facial expressions	Sensory language Five senses	happening Have / go / say / walk
,	 Begin this section with a trigger This memory should contrast your character's current situation DEVICES: Sensory language / juxtaposition / light imagery / similes / metaphors / symbolism 	Temporal Reference Using a time reference to indicate a flashback	Simile Comparing something to something else: 'as', 'like'	Something that will happen Will have / will go / will say / will walk
RETURN TO THE SCENE	 Begin this section with a trigger that forces your character back to their current world Offer a glimpse of change / a subtle change to end your story Return to something that you described in your opening paragraph to create a cyclical structure DEVICES: Sensory language / personification / pathetic fallacy / symbolism / cyclical structure 	Puncto Apostrophes -To show that letters are missing in a word -To show possession	Semi-colons -To help join closely connected ideas in a sentence	Thele Ther They're Your Your You're
Adjective	Word Classe Adverb Preposition	s Pronoun Noun	Verb	Its 🥳 🖌 🔮 🖗
Describes a noun o pronoun. Blue / young / powe	br How, when or where Where something is; the Wo something happens. time, direction or cause of	rds that replace nouns or noun phrases. She / he / they The formation of the second s	ning, idea An action or state of being. eing. Jump / write / be	It's Which

Year 8 Coasts

Term	Definition
Coast	Where the land meets the sea
Island	A piece of landcompletely surroundedby sea
Ocean	A very large body of water, there are 5.
Erosion	When the sea wears away the land
Weathering	When the weather or plants cause rock to breakdown
Transport	How the sea transports material
Deposition	When the sea drops material due to a lack of energy
Landform	A natural feature of the earthe.g. beach
Wave	A disturbance on the surface of the water usually by the wind. They look like ridge
Swash	When a wave moves up the beach
Backwash	When a wave goes back down the beach

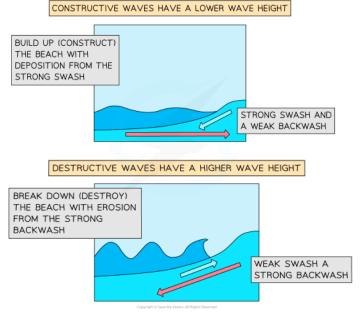


Great Britain is an island surrounded by sea. Therefore you are never far from the coast. The landforms on our coast have all been created by the sea through the processes of erosion, transport and deposition.

Types of wave

There are two different types of wave. Constructive waves which are low energy and deposit material on the shore. These build beaches.

Destructive waves are high energy and usually occur during storms when there is lots of wind. Over time they destroy beaches and cliffs.



Erosion: When the sea wears away the land. There are four different processes of erosion.

Hydraulic Action: Is the force of the waves hitting The cliffs. Air bubbles are forced into cracks Weakening the rock until it breaks off.

Abrasion: small rocks and pebbles hitting the cliff repeatedly wears the cliff away.

Attrition: rocks bashing into each other and becoming smaller and smoother.

Solution: Chemicals in the water can slowly dissolve Certain types of rock.

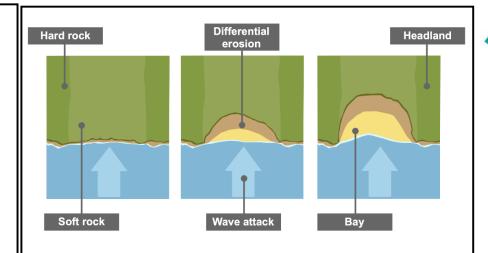


Types of Weathering:

- 1. Biological: plant roots can weaken or break rock apart
- 2. Chemical: chemicals in the rain can slowly dissolve certain types of rock
- 3. Mechanical (free-thaw) water that gets into cracks in rocks will expand as it freezes and compress as it melts. Over time this can cause rocks to break apart.

A coastal landform created by erosion: HEADLANDS AND BAYS

- 1. Headlands and bays form where there are alternating bands of hard and soft rock perpendicular to the oncoming waves (see the labels on the first diagram)
- 2. At first, the softer rock (e.g. clay) is eroded backward by differential erosion (hydraulic action and abrasion), forming an inlet
- 3. As the inlet continues to erode it curves inwards, and a bay is formed, usually with a beach.
- 4. The harder rock (e.g. limestone) is left sticking out to sea as a headland



Coastal Transportation and Deposition can form: A COASTAL SPIT



The prevailing (most common) wind direction can create waves that hit a beach at an angle. This has the potential for material to be transported down the coast (see picture labelled longshore drift)

At times the wind can change direction which makes the material get deposited and form a hook. See land in front of salt marsh. Eventually enough sand builds up, sand dunes form and the sea behind the spit will start to dry out creating a salty marsh.

Deposition and change in wind direction over many years can create coastal spits (this is new land being created by moving material along the coast).

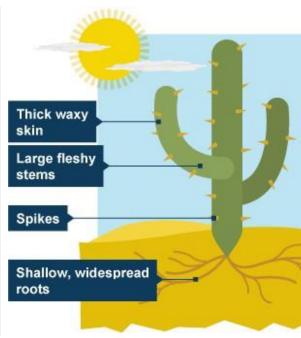
Year 8 Hot Deserts

Term	Definition
Desert	Hot deserts are hot arid areas with little rainfall, extreme temperature and sparse vegetation
Ecosystem	A collection of plants and animals within a particular area.
Biome	A large ecosystem where plants and animals are determined by the area's climat
Climate	Climate isthe average weather conditions in a place over a long period of time.
Adaptation	When a plant or animal changes to suit th e nvironmentit lives in.
Drought	When an area receives very little rainfall.
Development	How a countries standard of living changes over time (wealth & wellbeing)
Infertile Soil	Soil that cannot support plant growth / poor quality so plants will not grow
Desertification	This is process by which healthy soil turns into desert.

Vegetation in the Desert

Deserts have very low biodiversity because it is very hot and dry. The plants that a able to survive there are heavily adapted to cope with the lack of rain and high temperatures. The <u>cactus</u> opposite has a number of important adaptations.

- The thick waxy skin prevent moisture loss in the heat.
- The large fleshy stems can store water for when the plant needs it because there is so little rainfall.
- Spikes stop animals from eating the stem to get the water.
- The shallow widespread roots are so the plant can catch any rainfall quickly before it evaporates.





- desert, deserts are found near to or on either the Tropic of Cancer or the Tropic of desert, icorn.
- The Sahara Desert is the worlds largest desert and it spans the full length of Northern Africa.

<u>Climate</u>

- During the day, desert temperatures rise to an average of 38 °C (in summer).
- At night the temperature can drop as low as -2°C as there are no clouds to keep the heat close to earth.
- Deserts receive under 250mm of rainfall per year making them the driest of all biomes. The average in Mancheste r is 900mm per year.

<u>Soil</u>

- Desert soils are thin, sandy and rocky.
- Desert soils are very dry. When it does rain they soak up the water very quickly.

26

Who lives in Hot Deserts?

People have been living in deserts for 1000's of years. In the Sahara Desert there is a group of people called the **Bedouin** who have lived in the desert for many generations. They are a **traditional society** meaning the knowledge and skills have been passed down through generations about how to survive in the desert. They are also **nomadic** meaning they move regularly in search of food and water for themselves and their animals.

Las Vegas: A city in the desert

- Las Vegas is a city that was built in the Nevada Desert. It became a city after the Hoover Dam was built on the Colorado River creating Lake Mead providing enough water to support a larger population.
- Las Vegas has a population of 660,000 people.
- Due to an increasing population and low rainfall levels in 2020 Lake Mead was reduced to 25% of its capacity.
- Las Vegas is having to put in place measures to try and reduce the amount of water it is using.
- Some of these measures are banning big swimming pools, re-using water and removing grass (which shouldn't grow in the desert anyway.)

Can Deserts Grow?

Desertification is the process by which healthy soil becomes desert. This is happening in deserts all over the world. So yes, deserts can grow.

Two reasons desertification is occuring:

- 1. <u>Climate Change:</u> As the planet is warming up and some areas are receiving less rainfall vegetation is dying.
- 2. Overuse of the soil: Too much farming can cause the soil to become infertile. Plant roots no longer hold the soil together and it can be blown away by wind. This leaves bare rock.

Can we stop deserts growing?

Yes, in Africa some methods are proving successful at stopping the Sahara growing

1. <u>The Great Green Wall:</u> Planting millions of trees along the edge of the Sahara desert. The roots hold the soil together and the tree canopy provides shade reducing the temperature of the soil so it can retain moisture.





Y8 - Knowledge Organiser - The First World War

What do I need to know?

- What were thelong term causes of the First World War?
- How did the assassination of Franz Ferdinand lead to the outbreak of the First World War?

What were the long term causes of the First World War

- Militarism Building up armed forces (army and navy), getting ready for war. Many European countries had industrialised during the late 1800s and early 1900s. This allowed many European countries build massive armies with the most up to date technology. Britian led the charge at sea, creating dreadnoughtbattleships.
- Alliances Agreements or promises to defend and help another country. Many countries at the time agreed to work together and protect each other in case of war.
- Imperialism *Trying to build up an Empire.* Many European countries believed they should have an Empire. . This caused a lot of tension between countries.
- Nationalism Having pride in your country, groups wanting to have a country of their own. People felt that their country was superior to others. This was fuelled by government propaganda that sought to portray the war as a matter of duty.

How did the events in Sarajevo lead to war?

Archduke Franz Ferdinand of Austria-Hungary was assassinated on June 28, 1914, in Sarajevo, Bosnia, by Gavrilo Princip, a member of the Serbian nationalist group the Black Hand GangAustria-Hungary blamed Serbia. This led to many countries becoming involved because of the growing alliance system and putting pressure on the already strained elationships that ultimately triggered the start of World War I.

Key vocabulary Empire A collection of areas of land that are ruled over and controlled by one leading country. Assassination The murder of a well known person usually for political reasons. Cause A reason why something happens. These can be long term (happening for a long time) or short term (happen just before an event).

	What was the Alliance system?						
Triple Entente	Triple Alliance						
Britian, France,	Britian, France, Russia Austria-Hungary, Germany, Italy						
ł	How did the Alliance	system lead to WWI?					
28th June	Archduke Franz Fer Sarajevo, Bosnia	dinand is assassinated in					
6th July	,	blank cheque' to find the killers t says it will support the punishment					
23rd July		ive Serbia an ultimatum– Give was involved in the assassination or					
28th July		operate with AustriaHungary. clares war on Serbia					
31st July	Russia, supporting and prepare for wa	Serbia starts to move troops r.					
1st August	-	ia to hold off its defence of so sends troops towards France					
2nd August	Germany demands or threatens invasio	safe passage through Belgium on– Belgium refuse					
4th August		elgium and Britian declares war se of a treaty from 1839 that invading Belgium.					
6th August	Austria-Hungary de begun.	clare war on Russia. WW1 had					





Y8 - Knowledge Organiser - The First World War

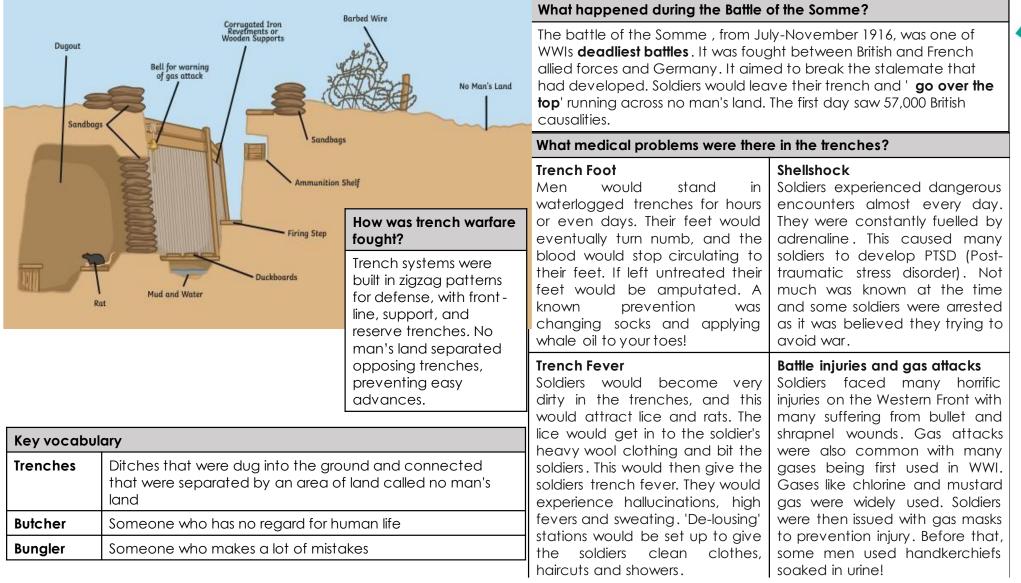
What do I need to know?

- Why did men volunteer to fight in the First World War?
- Conscientious objectors: brave men or cowards?
 What was the contribution of Empire troops to the First World War?

Why did men	volunteer to fight in the First World War?	What was the contribution of Empire troops to the First World War?				
patriotism and and loyalty to believing they • Social Pressu men who didn heroes, making as cowards. • Adventure an adventure, tro would be shor	d Duty – Many British men felt a strong sense of duty to their country. Propaganda, national pride, the British Empire encouraged them to enlist, were defending Britain. re and Expectations – White feathers were given to 't volunteer, and posters depicted soldiers as g it difficult for men to refuse without being labelled nd Travel – For many young men, the promise of avel to foreign lands, and the belief that the war t encouraged them to sign up willingly.	 Manpower from India – Over 1.3 million Indian soldiers served, fightin in major battles like Ypres and the Somme, with around 74,000 losing their lives for Britain. Canadian Forces at Vimy Ridge – Canadian troops played a crucia role in the 1917 Battle of Vimy Ridge, securing a key victory that boosted Allied morale and nationalpride. African Soldiers and Laborers – Thousands from British Africa, includir the King's African Rifles, served in the East African campaign, while many more worked as porters and laborers. West Indian Regiment – Caribbean soldiers served in the British West Indies Regiment, fighting in the Middle East and supporting European campaigns despite facing discrimination and poor conditions. 				
	ardship – Many working-class men faced nt and poverty. The army provided stable pay, food,	Conscientious objectors: brave men or cowards?				
encouraged r they could fig	s and Community Bonds – The British Army nen to enlist together in "Pals Battalions," meaning ht alongside friends, relatives, and colleagues. This araderie and loyalty to their communities played a cruitment.	 Those who refused to fight were called conscientious objectors (COs Objecting on moral or religious grounds led to non -combatant roles civilian work of national importance: labouring on farms or in aid post Some volunteered to drive field ambulances, but failure to serve in a capacity meant imprisonment. Around 1500 men refused to contribute to the war in any way. Many 				
Key vocabula	ſŸ	of these were imprisoned serving repeated sentences under hard				
Volunteer	When someone freely offers to do something	labour. Conditions were harsh and 73 absolutists died of the treatment they received.				
Conscientiou s Objector	Men who were opposed to the war and did not want to fight.	One notable objector was William Chadwick from Westhoughton. He				
Recruitment	Enlisting new people into the armed forces	was a communist and did not believe in going to war. He was a				
Conscription	When every man aged between 18 and 41 had to join the army.	fireman and lived at 15 Market Street. He was arrested and court- martialled on 12 May and was sentenced to hard labour. After the war, William found it difficult to get work, as many employers discriminated against COs.				

What do I need to know?

- How was trench warfare fought?
- What happened during the Battle of the Somme?
- What medical problems did they cause?



Y8 - Knowledge Organiser - The First World War

Did Emily Davison aim to die for the vote?

What do I need to know?

- How did women campaign for the vote?
- Did Emily Davison aim to die for the vote?
- Was the First World War a turning point for women?

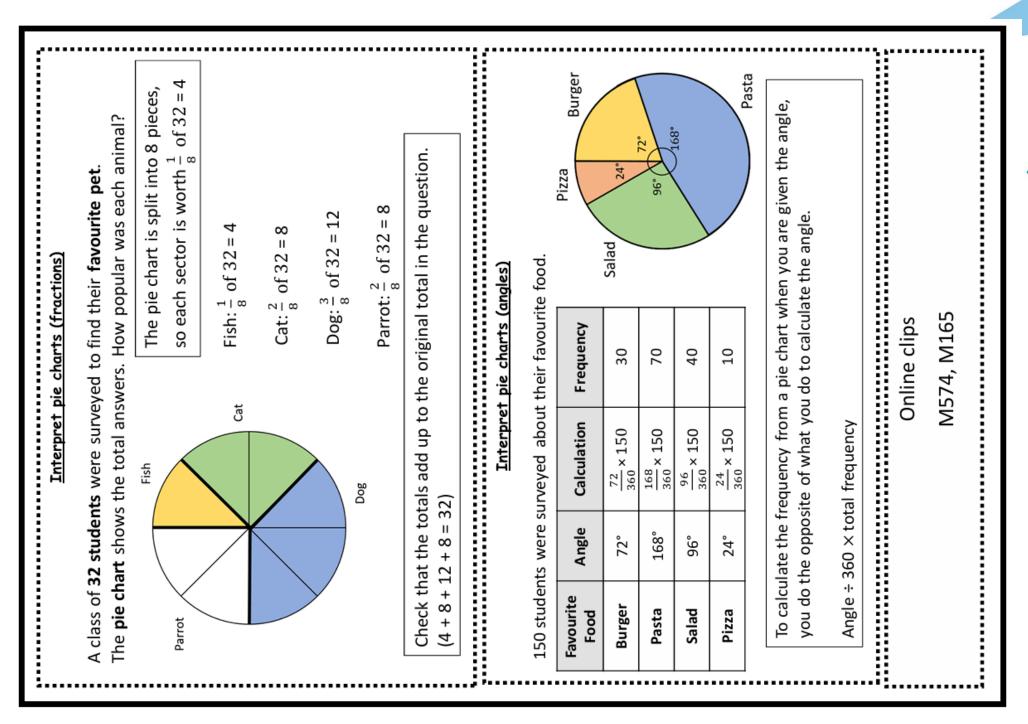
Was the First World War a turning point for women?

— — — — — — — — — — — — — — — — — — —		-		
World War I was a turning point for women, as they took on roles in factories, transport, and nursing, proving their capability beyond traditional domestic work. Their contributions challenged gender norms and strengthened arguments for suffrage, leading to women over 30 gaining the vote in Britain in 1918.	It was not a turning point as while World War I gave women more opportunities, many lost their jobs once men returned. Traditional gender roles persisted, and full suffrage wasn't granted until 1928. Women's rights were already advancing before the war, suggesting it was a catalyst rather than a true turning point for long - term equality.	Emily Davison int for the vote, as st of extreme suffra including hunger force-feeding. St suffragette flag of herself dangerou the king's horse, deliberate act o draw attention to suffrage.	he had a history agette activism, strikes and he carried a and positioned usly in front of suggesting a f martyrdom to	Davison likely did not intend to die, as she had a return train ticket and a ticket for a suffragette event later. She may have aimed to attach a suffragette scarf to the king's horse to gain publicity. Her actions were reckless but may not have been a deliberate suicide mission.
How did women campaign for the vor • Militant Tactics (Suffragettes?- The and Political Union (WSPU). Engaged window smashing, arson, and places, refused to pay taxes or other of voting rights, went on hunger strike and gain attention to the cause.	y belonged to the Women's Social d in more disruptive tactics, such as chaining themselves to public r civic obligations to protest the lack	movement. Her t demonstration, in sacrifice highligh contributed to th	uneral became c nspiring further ac ted the struggles	assive attention to the suffragette a powerful feminist tivism. Though controversial, her women faced. Her actions re for change, helping pave the h.
		Key vocabular	y	
	ige Societies (NUWSS) to coordinate d signatures on petitions and lobbied ffrage, delivered speeches, wrote	Suffragettes	vote through r	dvocated for women's right to militant and direct action ncluding civil disobedience.
	ts to educate the public about the e, organized peaceful marches, aise awareness and pressure the	Suffragists	-	dvocated for women's right to beaceful, legal means.



government.

<u>Component Knowledge</u>	Calculate angles in a pie chart Draw a pie chart from a table Interpret pie charts using fractions Interpret pie charts using angles			gles	<u>Drawing pie charts</u>		360 \div total = degrees for one person. In this example one person is 4°.			Multiply number of students by 4° to	get the angle.		Draw the angles onto the pie chart. Label each part with what it is (subject in this example) and how many it represents (40 for Maths in this example).	
	••••	<u>Key Vocabulary</u>	veen 2 lines. a proportionally.	sure and draw an	Drawing pie charts	$\frac{360}{90} = 4^{\circ}$	n this examp	Angle	160°	120°	80°	360°	Draw the angles onto the pie chart. Label each part with what it is (subject in this example) and how many it represents (40 for Maths in this example).	
. . , M	H H	<u>Key V</u>	The amount of turn between 2 lines. A chart that displays data proportionally.	Equipment used to measure and draw angles	Drawing	ne person?	one person. l	Calculation	$40 \times 4^{\circ}$	30 × 4°	20 × 4°		Maths	
			The ar A char	Equip		How many degrees for one person?	l = degrees for	Number of Students	40	30	20	06	20 30 ^{120°} 40	
Dia charte			Angle Pie chart	Protractor		How many	360 ÷ tota	Subject	Maths	English	History	Total	History	



Systematic listing	Component Knowledge
and Product rule	 To be able to list the possible outcomes of different events. To be able to use the product rule to determine the number of outcomes for different events.
Kev	Kev Vocabularv
Outcome The possible result of an experiment	f an experiment
Product The answer when tw	answer when two or more numbers are multiplied together.
Systematic listing	
Systematic listing is the method of listing all the possible outcomes of an event.	possible outcomes of an event.
<u>Worked example</u>	
At the ice cream kiosk, you can chooseone flavour of ice cream and one topping	our of ice cream and one topping.
Flavour Vanilla	Toppings Flake
Chocolate	Sprinkles
Banana	Nuts
There are 9 possible combinations: Vanilla and Flake, Vanilla and Sprinkles, Vanilla and Nuts Chocolate and Flake, Chocolate and Sprinkles, Chocolate and Nuts Banana and Flake, Banana and Sprinkles, Banana and Nuts	nd Nuts nocolate and Nuts 1 and Nuts
Product rule for counting	
Product rule uses multiplication to determine th listing them all.	Product rule uses multiplication to determine the number of possible outcomes of an event rather than listing them all.
<u>Worked example.</u>	
A safe has a 4-digit combination for example 4 5 7 8	78
Use the product rule to find the number of 4-digit combinations you can have on this safe.	it combinations you can have on this safe.
Each digit has a possible 10 possibilities (0, 1, 2, 3, 4, 5, 6, 7, 8 and 9)	3, 4, 5, 6, 7, 8 and 9)
Number of combinations = 10 (1 st digit) x 10 (2 nd digit) x 10 (3 rd digit) x 10 (4 th digit)	digit) x 10 (3 rd digit) x 10 (4 th digit) = 10,000
<u>lo</u>	<u>Online clip</u>
	U369

D	Probability	, M
		 Understand what probability shows Understand probability notation Write a probability of a single event
Į		Key Vocabulary
٦	Probability	The mathematical chance, likelihood, of an outcome happening
ш	Event	The "thing" that is being completed/done/observed/counted
끤	(Event) Outcome	What happens when the event is performed
2	Probability scale	A numerical scale from U to 1, with U being an impossible outcome and 1 being an an outcome certain to happen
ΣS	Mutually exclusive	When outcomes cannot happen at the same time eg being an adult and being a
비 습 ቫ	(event) outcomes Exhaustive (event) outcomes	When a set of outcome cover all possibility with no gaps eg it snowing and it not raining
<u> </u>	Probability:	
╡	he probability of a	The probability of an (event) outcome A, happening is
	P(outcome A) =	A) = $\frac{number\ of\ ways\ outcome\ A\ can\ happen}{number\ of\ ways\ anv\ outcome\ can\ happen}$
ອ ອ	g. the probability (e.g. the probability of rolling a number 4 on a regular 6 sided dice
o_{ι}	Outcome "4":4, so 1 option	option
		$P(roll \ a \ 4) = \frac{1}{6}$
Al	l possible outcome	All possible outcomes: 1, 2, 3, 4, 5 or 6 , so 6 possibilities altogther
	-	- - - - - - - - - - - - - - - - - - -
ð. j	e.g. the probability (dice	e.g. the probability of rolling a number greater than 4 on a regular 6 sided dice
01	utcomes "greater t	Outcomes "greater than 4": 5 or 6 , so 2 options
		$P(roll \ a \ number \ greater \ than \ 4) = \frac{2}{2}$
Al	l possible outcome	All possible outcomes: 1, 2, 3, 4, 5 or 6 , so 6 possibilities altogther
		Online clips
		M655, M941, M938, M755

Relative		<u>Component Knowledge</u>
		Understand what relative frequency is
Frequency		 Calculate experimental probability Use relative frequencies or experimental probabilities to estimate expected
		outcomes
	<u>Key Vocabulary</u>	ulary
Probability	The mathematical chance, like	The mathematical chance, likelihood, of an outcome happening
Event	The "thing" that is being comp	The "thing" that is being completed/done/observed/counted
(Event) Outcome	What happens when the event is performed	t is performed
Probability scale	A numerical scale from 0 to 1, an outcome certain to happen	A numerical scale from 0 to 1, with 0 being an impossible outcome and 1 being an outcome certain to happen
Theoretical probability	Probability based on reasoning	
Experimental Probability	Probability estimated from the observations)	Probability estimated from the results of conducting an experiment (set of observations)
Frequency	The number of times something happens	ng happens
Relative frequency	The number of times an event times the event	The number of times an event outcome happens relative to the number of times the event takes place (number of times experiment is conducted)
Number of Trials	The number of times an experiment is conducted	iment is conducted
Expected outcomes (Expectation)	The number of times you would for a specified number of trials	The number of times you would expect a particular (event) outcome to happen for a specified number of trials
	Achability.	de de la comparación de la c
An estimate of the probak experimental is conducted	e probability of an (eve nducted	An estimate of the probability of an (event) outcome A, happening when an experimental is conducted
FvD(mtrome A) -	number tin	number times outcome A happened
l –	number of times event	number of times event takes place (total number of trials)
e.g. If a <i>biased</i> coir	n is flipped 20 times a	e.g. If a biased coin is flipped 20 times and lands on tails 7 times
	ExP(lands on	tails) * 7 * 20
Relative Frequency:		
The number of time to the number of ti	The number of times (frequency) an (event) ou ⁻ to the number of times the event is performed	The number of times (frequency) an (event) outcome A happens, in relation to the number of times the event is performed
Df (mitcomo 4) -	number tim	number times outcome A happened
$\frac{1}{n} = \frac{1}{n}$	number of times event t	number oftimes event takes place (total number of trials)
e.g. If a biased coin	n is flipped 20 times ar	e.g. If a biased coin is flipped 20 times and lands on tails 7 times
	$Rf(lands on tails) - \frac{7}{20}$	ils) 7
Relative frequencie	ss are commonly writte	Relative frequencies are commonly written as decimal $Rf(lands on tails) = 0.35$

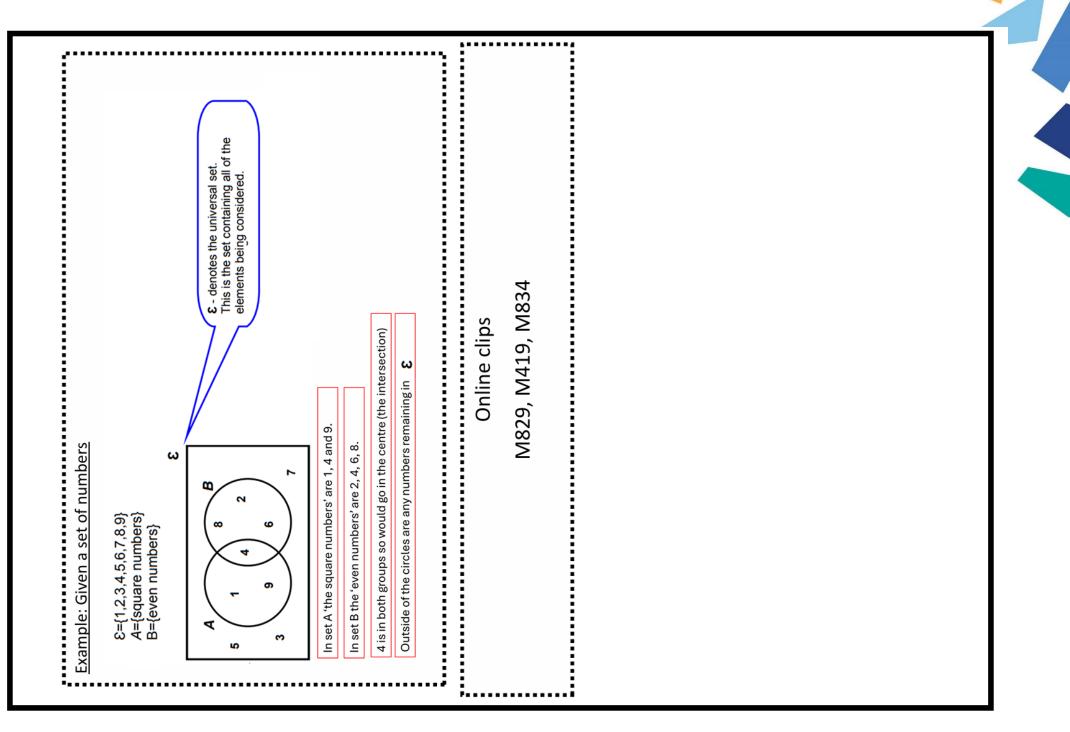
Relative Frequency v Experimental Probability: Can be thought of as inter-changeable, relative frequency is used as an experimental probability. Expectation: Expectation: Relative frequency can be used to estimate the probability of an (event) outcome A happenover a given number of times (event) outcome A would happen over a given number of observations (experiments) autome A would happen over a given number of observations (experiments) autome A would happen over a given number of times (event) outcome A would happen over a given number of observations (experiments) the text A would happen over a given number of times (event) autome A would happen over a given number of times (event) autome A would happen over a given number of trials Expectation of "lands on 4" = $Rf(lands on 4) \times number of trials$ $Rel Freq = \frac{4}{30} = \frac{5}{30} = \frac{2}{30}$ i. Estimate the number of times the dice would land on 4, if rolled 120 times Expectation of "lands on 4" = $Rf(lands on 4) \times number of trials$ $Relectation of "lands on 4" = Rf(lands on 4) \times number of trialsRhen rolled 120 times we would expect the dice to land on a, 32 times. Nhen rolled 120 times we would expect the dice to land on a, 32 times. Nhen rolled 120 times we would expect the dice to land on a, 32 times. More: Like Probabilities, relative frequencies should always sum to 1. Online clips M332, M206$

	L			_			Comp	<u>Component Knowledge</u>	nowled	ge	
	Sample				1	ٽ •	Complete	σ	sample space diagram to	e diagrai	m to
* >)		l	sh	od wot	-12	tcomes	D	
	Ŭ			U		ٽ •	alculaté	Calculate probabilities from a sample	ilities fro	om a sai	mple
	Shaces	ש	5			sp	space diagram	agram			
					<u>Key Vocabulary</u>	<u>Ilary</u>					
Outcome	The way something turns out	meth	ing tu	Ins ou	ıt						
e space	Records th	e pos	sible (outcon	Records the possible outcomes of two different events happening	nt events hap	pening				
Event Prohahilitv	A thing that happens or takes place The chance of an event happening	of ar	pens (or take	es place						
t	Events wh	ch do	not h	ave ar	Events which do not have an effect on each other	ther					
Dependent	Has an effe	sct on	some	thing	Has an effect on something else – eg Not replacing a counter when taking multiple out of a bag	lacing a count	er when	en taking mu	Itiple out	of a bag	bag
Creating a sample space diagram	ating a	a mes	ole s	Dace	Creating a sample space diagram			This is what a sample space	hat a sai	mple sp	ace
Use information proved to decide wh a table to find all moscible outcomes	n proved i all possib	to de	cide v	wheth	Use information proved to decide whether to write a list or create a table to find all mossible outcomes	t or create	>	would look like for spinning a spinner and flipping a coin	k like fo and flip	or spinni ping a co	ing a oin
Systematically write the list or fill in the table b outcomes or performing operations with values.	write the erforming	list o opera	r fill ation:	in the s with	Systematically write the list or fill in the table by either listing outcomes or performing operations with values.	listing			Red	Spinner Green	Blue
							nio	Heads	H,R	Р,G	H,B
Use the inform required.	ation fron	n the	list o	r tabl	Use the information from the list or table to find any probabilities required.	obabilities	·	Tails	T,R	T,G	T,B
Finding a probability from a sample space	bability	fron	nas	amp	le space	Creating	a tablé	Creating a table helps to organise the	organi:	se the	
Two dice are thrown and the possible outcomes are shown in	n and the p	ossibl	e outc	omes a	are shown in	informat	tion yo	information you have and ensures that no	insna br	res that	ou
the sample space diagram below:	iagram belo		-	а 13		outcome	es are r	outcomes are missed or repeated	repeat	ed.	
1 (11)	(1 2) (1 3)	-	4 (1.4)	5 (1 5)	(16)						
-	+	+	-	(2,5)	(2,6)	You mig	ht also	You might also be asked to do a calculation	to do a ·	calcula	tion
		\vdash		(3,5)	(3,6)		the san	to fill in the sample space instead of Just	se Instea raight ir	ad or Jus	r.
5 (5.1)	(4,2) (4,3) (5,2) (5,3)		(5,4)	(5,5)	(5,6)					<u>.</u>	
-	-		-	(6,5)	(6,6)	This sam	iple spa	This sample space shows the difference	s the dif	fference	
1) What is the pro	obability the	it 2 nu	mber	s which	What is the probability that 2 numbers which are the same	between	the or	between the outcomes when 2 dice are	when 2	dice are	0
are rolled? 6 outco	3? outcomes where numbers are the same	e nun	thers	areth	ie same	rolled.		2	4		
$\frac{36}{36} =$	total number of outcomes	nber	of ou	tcome	s		-	0 1 2 1 0 1	м с	3 4 4 5	
 What is the probability that two even numbers are rolled? 	obability the	it two	even	numbe	SIS			-1		\vdash	
dre rolleur 9 outco	outcomes where numbers are both even	unu a	bers	are bo	th even		4 N	3 2 1 4 3 2	2 1	1 2 0 1	
36 =	total number of outcomes	nber	of ou	tcome	S			4	5		
					Online clip	ġ					
					M718	~					

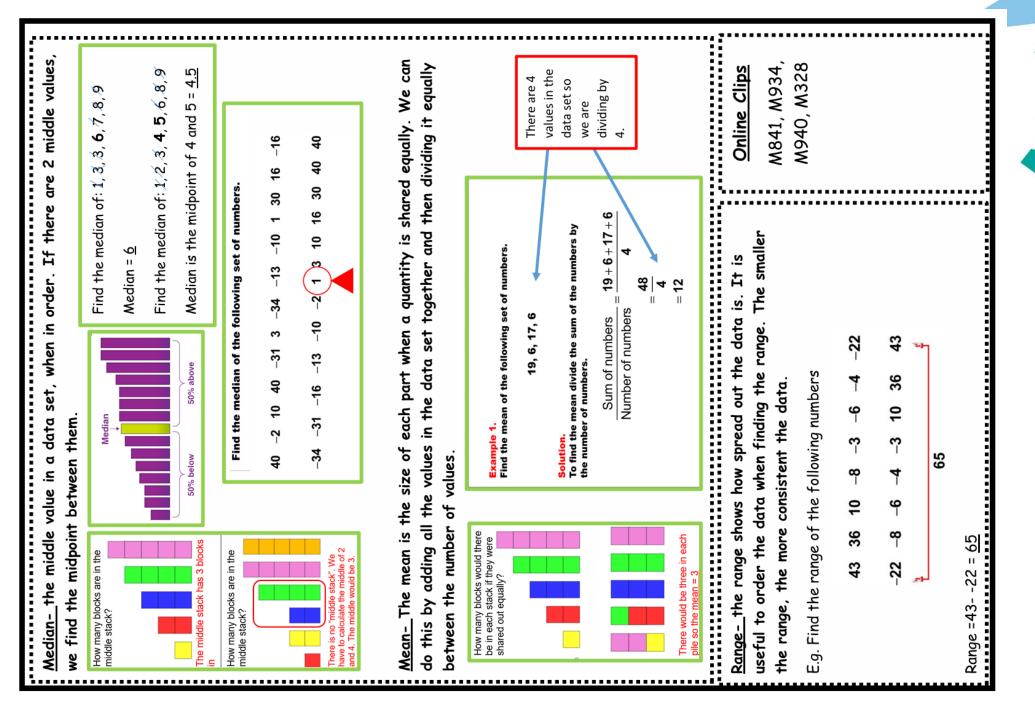
		L			S	mponent	Component Knowledge
	* >		A D-Max		•	instruct two	-way tables
	L S	Tat	Tables		••	Read and inte tables.	Collistiuct two-way tables. Read and interpret two-way tables.
						Find probabili tables.	Find probabilities using two-way tables.
ŧ		Key Vo	Ke	cabula			
	Two-way table	A table w	A table which shows two	A table which shows two variables at the same time- we can read them	s at the sam	e time- we ci	an read them
<u> </u>	Horizontal	Reading f	from left to	Reading from left to right or right to left	to left		
	Vertical Variable	Reading t A way of (the table to organising	Reading the table top to bottom or bottom to top A way of organising data according to a shared ch	or bottom to g to a share	top d characteris	Reading the table top to bottom or bottom to top A way of organising data according to a shared characteristic e.g eye colour, age
		We use	two-way t	We use two-way tables to compare 2 variables	npare 2 var	iables	We use two-way tables to compare 2 variables
- +	To construct a two he two-way table	o-way table, we r (read horizontall	need two ' ly), and th (re	o variables. Опе the other variab (read vertically)	ne variable i Ible feature /).	s featured a s on the firs	To construct a two-way table, we need two variables. One variable is featured as the top row within the two-way table (read horizontally), and the other variable features on the first column of the table (read vertically).
	S Example Th	nis two way tak	ble show	s a data se	t about w	hat studer	\mathscr{O} Example This two way table shows a data set about what students eat for lunch.
				Boys	Girls	Total	V
	The first column	Cooked food	poo	18	22	40	The top row shows boy or girl.
	shows the type	Packed lunch	inch	17	33	50	
		Total		35	55	60	
		17 bo packe	17 boys had a packed lunch			90 student: (40+50=90	90 students were asked in total (40+50=90 and 35+55=90
Ě	Example: 80 children went on a school trip.	went on a school t	trip.				Example: 80 children went on a school trip.
구	They went to London or to York	or to York.					
23	23 boys and 19 girls went to London.	vent to London.					
1	14 boys went to York.						Sten 1- fill in all
	(a) Use this infor	(a) Use this information to complete the two-way table.	te the two-	way table.			known values from the question.
		London	Y	York	Total		Total = 80
	Boys	23		14			Boys in London = 23 Girls in London = 19
	Girls	19					
	Total				80		

ī						
They went to	They went to London or to York	to York.		Step 2- calculate missing values using the known values. Remember hoth the horizo	Step 2- calculate missing values using the known values. Remember hoth the horizontal	
23 boys and 19 girls went to London.	19 girls wer	it to London.		and vertical totals mus	and vertical totals must equal the overall total,	
14 boys went to York.	it to York.			in the case below, = 80.		
(a) Use this ir	nformation	to complete th	(a) Use this information to complete the two-way table.			٦
		London	York	Total	23 + 19 = 42	
Boys		23	14	37	Boys total	_
Girls		19	24	43	80 - 37 = 43	
Total		42	38	80	Girls total	
		-				
	23 + 19 = 42 London total	= 42 total	80 – 42 =38 York total	38 – 14 = 24	= 24	
Interpreting two-way tables	two-way	<u>tables</u>				
We can now	v use the fi	ully complete	d two-way table t	We can now use the fully completed two-way table to interpret the data.		
	London	York	Total			
Boys	23	14	37			
Girls	19	24	43			
Total	42	38	80			
Questions could look like this:	ould look l	ike this:				
a) How ma	ny students	How many students went to London?	on?			
We can	read from	We can read from the table vertically	rtically and see th	and see there were 42 students who visited	<u>vho visited</u>	
b) One of tl What is	hese 80 stu the probab	One of these 80 students is chosen at random What is the probability that this student visite	Dne of these 80 students is chosen at random. What is the probability that this student visited London?	lon?		
We can	read from	the table vertion	cally and see there	We can read from the table vertically and see there <u>were 42 students who visited London</u>	sited London.	
So, the	e P(a stud	So, the <i>P</i> (<i>a student visits London</i>)	$ndon) = \frac{42}{80}$			
c) A studen Given th	A student is picked at random Given they are a girl, what is t	at random. I, what is the p	A student is picked at random. Given they are a girl, what is the probability they went to York?	nt to York?		
We cal	n read the	table to find	the total girls = 4:	We can read the table to find the total girls = 43 and the girls who visited York	ted York = 24	
So, the	e P(given	the student	So, the $P(given the student is a girl, they visit York)$	<i>visit York</i>) = $\frac{24}{43}$		
<u>Online cl</u>	clip	M899				

		Component Knowledge
		Complete a Venn Diagram when given
		a set of data
Diagrams	A ۳	Fill in missing values in a Venn Diagram
		Interpret a Venn diagram
		Find probabilities from a Venn Diagram
		nple set notation
	<u>Key Vo</u>	Key Vocabulary
Set	A collection of "things" (objects or numbers)	:cts or numbers)
Union	The set made by combining the elements of two sets	the elements of two sets
Intersection	The intersection of two sets	The intersection of two sets has only elements common to both sets
Probability	The change that something happens	happens
Venn Diagram	A diagram that shows sets which elements belo It is used to represent data that has an overlap.	A diagram that shows sets which elements belong to which set by drawing regions around them. It is used to represent data that has an overlap.
<u>Key Concepts</u>		Fvamnie
Venn diagrams show a	Venn diagrams show all possible relationships	
between different sets of data	s of data.	
B	A∩B	30 have a brother
	The intersect of A and B. The set of elements in	25 have a sister
ζ	both A and B.	8 have both a brother and a sister
		This is what the Venn Diagram for this information would look like
	The set of elements in A or B or both.	$ \rangle$
٤		(30-8) (25-8)
A, A	B' The complement of B. The set of elements not in B .	= 22 8 = 17 (50-22-8-17) = 3
		Remember – the people in the intersection are
Venn Diagrams with 3 sets	<u>sets</u>	also included in the whole circle so we don't
Diagrams can be drawn to		duplicate data.
show more than 2 sets of data. This is an example of a Venn Diagram containing 3 sets.	f data. enn hunter drew is.	From the Venn Diagram, we can see that the probability of someone from this group just having a brother is 22/50.
S = {Alex, Hunter, Casey and Drew}	and	The probability of someone from this group having neither a brother or a sister is 3/50
T = {Jade, Casev and Drew}	{	The probability of having a brother and a sister.
V = {Drew, Jade and Glen}		$P(A \cap B) = \frac{8}{50}$



Ave	Averages		<u>Component Knowledge</u>	
		• To ui	To understand and calculate the mode from a list.	from a list.
	•••	• To ui	To understand and calculate the median from a list.	in from a list.
∦ ∧		• To ui	To understand and calculate the mean from a list	from a list
Ĕ		• To ca	To calculate the range and understand it is not an	it is not an
	••••	average	age.	
		Key Vocabulary	<u>Key Vocabulary</u>	
Data set	Collection of values that	share a comm	Collection of values that share a common relationship. This could be answers to	s to a set
	question or information for a set objective.	for a set object	tive.	
Average	Is a value (or values) that is used to represent a whole data set	t is used to rep	resent a whole data set	
Mode	The most frequent value more mode.	in a data set. l	The most frequent value in a data set. It is a type of average. Modal is another word used more mode.	er word used
Median	The middle value of a da	ta set, when o	The middle value of a data set, when ordered. It is a type of average.	
Mean Range	A measure of the size of A value to show spread c	the data when out a data set i	A measure of the size of the data when shared out equally. It is a type of average. A value to show spread out a data set is. It can be used to describe how representative of	erage. esentative of
	the whole data set the average used is. It is NOI AN AVERAGE.	verage used is.	the whole data set the average used is. It is NOI AN AVERAGE.	
<u>Averages</u>				
We use averages we can interpret	to summarise a whole large data sets and al:	data set in so compare	We use averages to summarise a whole data set in a single value/few values. We do this so we can interpret large data sets and also compare data sets more easily.	do this so
<u>Mode</u> - the most f set of data	frequent value/ few vc	alues in a da	<u>Mode</u> - the most frequent value/ few values in a data set. There can also be no mode in a set of data.	iode in a
Ex 1, find the mode:	de:			
blue red	blue green	blue	blue	
pink green	blue red	blue	yellow <u>Blue is the mode</u> .	<u>ode.</u>
Ex 2, find the mode:	de:			
9, 4, 3, 6, 9, 5, 2, 1, 8, 7	2, 1, 8, 7			
To make it easier	, we can re-write thes	se values in	To make it easier, we can re-write these values in ascending(increasing) order.	
1, 2, 3, 4, 5, 6,	2, 3, 4, 5, 6, 7, 8, 9, 9. <u>We can now see clearly 9 is the</u>	iow see clea	rly 9 is the mode.	
Ex 3, find the mode:	de:			
9, 4, 3, 6,	9, 4, 3, 6, 9, 5, 2, 1, 8, 7, 3			
Re-written 1, 2,	3, 3, 4, 5, 6, 7, 8, 9, 9 We can see 3), 9 We <u>can</u>	see 3 and 9 are the modal values.	<u>/alues.</u>
	** We usually only	y have 1, 2 (** We usually only have 1, 2 or 3 modal values**	
Ex 4, find the mode:	ide:			
4, 3, 6, 9,	4, 3, 6, 9, 5, 2, 1, 8, 7			
Re-written 1, 2,	3, 4, 5, 6, 7, 8, 9 W	'e can see t	9 We can see there are NO modal values.	



Year 8Topic 2 Part 20ù habitestu? – Where do you live?

Key ideas What you can do in town Where we live In my home



Mon appart est plus grand que ton appart. – My apartment is more big than your house. Ma maison est plus *intéressante* que ta maison. – My house is more interesting than your house.

Qu'est-ce qu'on peut faire dans taville?

- What can you do in your town?
- Dans ma ville, on peut...
- In my town, you can...
- À Bolton, on peut...
- In Bolton, you can...
- Ici, on peut...
- Here, you can...
- Là-bas, on peut...
- There, you can...

visiter les musées - visit museums visiter les jardins - visit the gardens/parks visiter les monuments - visit monuments aller au concert - go to a concert manger au restaurant- eat at a restaurant faire du roller ou du skate- to go rollerblading or skating faire du vélo - to go on a bike ride/cycling faire du bowling - to go bowling jouer au babyfoot au café - play table football at the café jouer au flipper au café - play pinball at the café faire une promenade en barque - go on a boat trip

My house

C'est comment chez toi? - What is your house like? Dans ma maison, il y a (huit) pièces - In my house, there are (eight) rooms Chez moi, il y a... – At mine, there is Voici...- Here is... la chambre de mes parents... - my parents' bedroom la chambre de ma sœur... - my sister's bedroom ma chambre - my room la cuisine - the kitchen le Jardin - the garden la salle à manger - the dining room la salle de bain - the bathroom le salon - the living room les toilettes - the toilet le bureau - the desk / office la fenêtre - the window la porte – the door le lit - the bed la table – the table



Opinions of where we live Tu aimes ta ville/ton village? Do you like your town/village? J'adoreça - I love it Je déteste ca - I hate it J'aime habiter à... - I like to live in... J'aime habiter ici – I like to live here J'aime y habiter – I like living there J'aime habiter là-bas – I like living there Je suis très content(e)d'habiter ici - I am very happy to live here Je voudrais habiter à... I would like to live in... Mon village / Ma ville est - My village / towm is Mon appartement / Mamaison est - My flat / house is

Mon Jardin / Ma rue est - My garden / street is intéressant/intéressante-interesting ennuyeux / ennuyeuse - boring nul / nulle - rubbish petit / petite - small grand / grande – big gros / grosse – big/fat beau / belle - beautiful vieux / vieille - old nouveau / nouvelle - new moderne - modern confortable - comfortable propre – clean sale – dirty

Adjectives agree with the noun they describe!

Year 8Topic 2 Part 2Transferable language

Habiter – to live

J'habite – I live Tu habites – You live (singular / informal) Il habite – he lives Elle habite – she lives On habite – we live Nous habitons – we live Vous habitez – you live (plural / polite) Ils habitent – they live (m /m+f) Elles habitent – they live (f)

Key verbs in the present tense

Pouvoir – to be able to Je peux – I can Tu peux – you can (singular / informal) Il peut – he can Elle peut – she can On peut – we can Nous pouvons – we can Vous pouvez – you can (plural / polite) Ils peuvent – they can (m /m+f) Elles peuvent – they can (f) Prepositions dans - in devant - in front of derrière - behind entre - in between sous - under sur – on à côté de - next to à droite de - on the right of à gauche de - on the left of en face de - opposite

Je pense que – I think that Je crois que – I believe that Je dirais que – I would say that À mon avis – In my opinion c'est– it is ce n'estpas – it isn't Je trouve ça – I find that

important(e)- important
génial(e) - great
agréable - pleasant
joli(e) - pretty
moche - ugly



Of + the

de + le = du (masc.) de + la = de la (fem.) de + les = des (plural) de + l' = de l' (starts with a vowel sound)

> Using a range of language improves the quality of our speaking and writing and allows us to access more challenging texts!



Quelquefois – Sometimes Normalement – Normally D'habitude – Usually Tous les week-ends – Every weekend En ce moment – At the moment Souvent – Often Tous les jours – Every day Tous le soirs – Every evening Tout le temps – All the time De temps en temps – From time to time Une fois par mois – Once a month Deux fois par semaine – Twice a week Ce matin / Cet après -midi / Ce soir This morning / afternoon / evening Ce week-end – This weekend Auiourd'hui - Todav

Time expressions

Connectives et – and mais – but aussi – also parce que – because car – because puisque – since cependant – however malheureusementunfortunately Free time – opinons

¿Qué te gusta hacer en tu tiempo libre? - What do you like to do in your free time? Me gusta - I like Me gusta mucho - I really like No me gusta - I don't like No me gusta nada - I don't like at all Me chifla - I am nuts about Me flipa - I am cray about Prefiero - I prefer Me encanta - I love Odio - I hate Antes me gustaba - Before I used to like En el pasado odiaba - In the past I used to hate

This weekend

¿Qué vas a hacer este fin de semana? – What are you going to do this weekend? Este fin de semana - this weekend voy a - I am going

chatear – to chat (online) escuchar música – to listen to music jugar (a los) videojuegos – to play videogames mandar SMS / mensajes – to send text messages ver la televisión – to watch television leer – to read escribir correos (electrónicos) – to letters (e-mails) salir con mis amigos – to go out with my friends bailar – to dance <u>Free time sentence openers</u> Todos los días – Everyday A veces – Sometimes De vez en cuando – From time to time Nunca – Never Los lunes – On Mondays/Every Monday

- In spring

- In summer

- In autumn

- it's raining

- it's cold

- it's hot

- it's sunny

- it's good weather

- it's bad weather

- it's snowing

- In winter

- When

- En primavera En verano En otoño En invierno
- Cuando Ilueve nieva hace frío hace calor hace sol hace buen tiempo hace mal tiempo

porque	- because
es	- it is
no es	- it is not
era	- it was
interesante	- interesting
guay	- cool
divertido	- funny.amusing
aburrido	- boring



- ¿Qué haces en tu tiempo libre? – What do you do in your free time? ¿Qué haces normalmente?
- What do you do normally? ¿Qué haces en...?
- What do you do in...?

Key ideas Sports and hobbies

bailo - I dance hablo con mis amigos - I talk with my friends - I ride my bike monto en bici - I sing songs canto canciones saco / subo / cuelgo fotos I take photos / upload / post photos chateo en línea - I chat online toco la guitarra - I play the guitar juego (a los) videojuegos - I play videogames escucho música - I listen to music mando SMS / mensajes - I send texts hago atletismo - I do athletics hago equitación - I do horse-riding hago natación - I do swimming juego al baloncesto - I play basketball juego al fútbol - I play football juego al tenis - I play tennis juego al vóleibol I play volleyball

Year 8 Topic 3: Los pasatiempos - Free time



-Ar verbs	
Hablo	- I talk
Hablas	 You talk (singular / informal)
Habla	 He talks / She talks
Hablamos	- We talk
Habláis	 You talk (plural / polite)
Hablan	- They talk

Year 8 Topic 3: Transferable Knowledge



Using a range of language improves the quality of our speaking and writing and allows us to access more challenging texts!

Key verbs in the present tense

Jugar – to	o play
Juego	- I play
Juegas	- You play (singular / informal)
Juega	 He plays/ She plays
Jugamos	- We play
Jugáis	 You play (plural / polite)
Juegan	- they play

Days of th	e Week
lunes	- Monday
martes	- Tuesday
miércoles	- Wednesday
jueves	- Thursday
viernes	- Friday
sábado	- Saturday
domingo	- Sunday



Hacer – to do - Ido Hago - You do (singular / informal) Haces - He does/ She does Hace Hacemos - We do - You do (plural / polite) Hacéis - they do Hacen

Connectives	
У	- and
0	- or
también	- also
pero	- but
porque	 because
ya que	- since
dado que	- given that
sin embargo	- however
no obstante	- however

Opinions ¡Me gusta! - I like it! Me encanta! - I love it!

Infinitives

-Ar -Er -Ir

In Spanish infinitives end in:

when it is in it's infinitive form.

usually in the infinitive form:

Me gusta bailar

I am going to dance

I like to dance

Voy a bailar

Structures followed by the infinitive In Spanish, the second verb in a clause is

In English, a verb will have "to" in front of it

Possessive Adjectives Mi – my singular Mis – my plural Tu – your singular Tus – your plural

con	- with
mi familia	- my familia
mis amigos	- my friends (m)
mis amigas	- my friends (f)

Offbeat	Exploring Regg	ae and Syncopation		E W
<u>A</u>	. How did Reggae develop	<u>?</u>	B. Where is Jamaica?	C. What are Reggae Songs About?
REGGAE is one of the traditional mu MENTO A form of Jamaican FOLK MUSIC like CALYPSO popular in the 1950's. Reggae was first heard in the UK in the 1950'	REGGAE	ROCK STEADY A more vocal style of dance music which used RIFFS, SIMPLE HARMONIES, OFFBEAT RHYTHMS and a strong BASS LINE. ing the 1960's, people began importing	Guif of Metodo Hanni Hanni Hanni Hanni Hanni Condition Hanni Hanni Hanni Condition Condition Condition San Juan Condition San Juan San Jua	Reggae is closely associated with RASTAFARIANISM (a religious movemen worshipping Haile Selassie as the Messia and that black people are the chosen people and will eventually return to their African homeland). The LYRICS of Regga songs are strongly influenced by Rastafarianism and are often political including themes such as LOVE, BROTHERHOOD, PEACE, POVERTY, ANTI
singles from Jamaica to sell in UK shops. Nov D. Offbeat Rhythms & Synco		al Features of Reggae	F. Reggae Key Words	RACISM, OPTIMISM and FREEDOM. G. Who was Bob Marley?
Image: Strength of the second strengt of the second strength of the second strengt	a 4 3 4 3 4 4 4 4 4 5 5 6 4 4 4 5 4 6 4 7 4 7 4 8 4 9 4 1 5 1	IS AND MELODIES (see D) th BACKING SINGERS sometimes SPONSE (see F3) accompanied by a en features: BRASS INSTRUMENTS and IC GUITARS, BASS GUITAR, AND PERCUSSION INSTRUMENTS. ENTAL IMPROVISATIONS (see F2) b) ed!') TEMPO IATURE e structured in VERSE AND NG FORM.	 MELODY – The main 'tune' of a piece of music, often sung by the LEAD SINGER. IMPROVISATION – Previously unprepared performance. CALL AND RESPONSE – Similar to a "Question and Answer" often the call sung by the lead singer and answered by the backing singers or instruments (the response) – musical dialogue. SIMPLE HARMONIES – using a limited number of CHORDS, mainly PRIMARY TRIADS such as the TONIC, DOMINANT and SUBDOMINANT chords. Key of C major Chord I Chord IV Chord V RIFF – A repeated musical pattern. Often the BASS GUITAR played repeated MELODIC BASS RIFFS in Reggae songs. BASS/BASS LINE – The lowest pitched part of a piece of music often played by the BASS GUITAR in Reggae which plays an important role. CHORD – 2 or more notes played together in HARMONY. RHYTHM – A series of long and short sounds. TEXTURE – Layers of sound combined to make music. 	BOB MARLEY was a famous reggae singer, SONGWRITER, and musician who first became famous in his band The Wailers, and later as a SOLO ARTIST. He was born Nesta Robert Marley on February 6th, 1945 in Nine Mile, Saint Ann, Jamaica. Although he grew up in poverty, he surrounded himself with music and met some of the future members of The Wailers. Bob Marley became involved in the Rastafarian movement and this influenced his music style greatly. Bob Marley and The Wailers worked with several famous musicians before becoming famous on their own. His career flourished and he became a cultural icon. He was the first international superstat to have been born in poverty in a Third-World country.

V

Javelin:	Discus:	Shot Putt:	Long Jump:
• Sideways stance	 Sideways stance 	 Sideways stance 	 Measure run up-start with
 Weight in back leg 	 Weight in the back leg 	 Weight on back leg- toe, 	dominant foot on the board,
• Arm holding javelin	 Discuss held with very ends of 	knee and chin all in	run 7, 9 or 11 steps at a sprint
outstretched behind you	finger tips	alignment	 Take off- plant foot on (but
• Bend arm at elbow, to	 Non discus hand outstretched 	 Shot held in fingers, not 	not over the board), eyes up,
pull the javelin forwards	at 45 degree angle	touching palm, and	hips up and focus on driving
 Transfer weight onto 	• Swing discus (palm towards the	pushed into neck with	up into the air
front leg	ground) up to reach non discus	elbow raised	 Flight-stretch both legs
• Aim to release the	hand several times	 Transfer weight from 	forwards, and reach towards
Javelin at a 45degree	 As discus reaches 45 degree 	back leg to front, twisting	your feet with hands
angle	angle straight back leg	torso	 Landing- aim to land feet
 Advanced: carry out 	 After 3-4 wind up swings 	 Push shot up and out at 	together, and body forwards
three step run up into the	release the discus forwards off	a 45 degree angle.	or sideways (not backwards)
throw	your index finger		

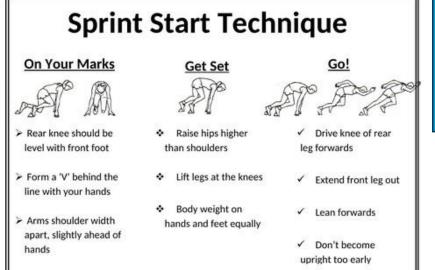








Westhoughton High SCHOOLKS3 PE KNOWLEDGE ORGANISER – ACTIVITY: ATHLETICS



Sprint- Knee Drive:

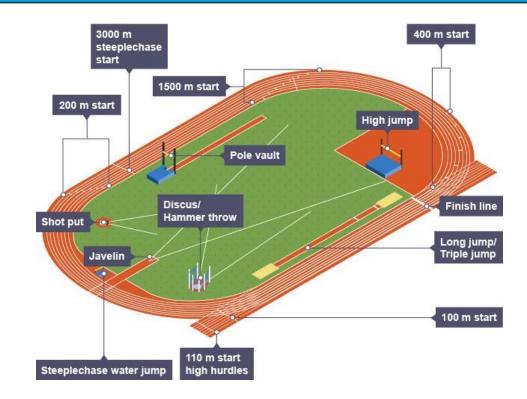
- When sprinting drive knees high
- Keep eyes close to the body and move them hip to lip
- Look forwards with chest up and shoulders relaxed.
- When finishing dip chest forwards slightly as you cross the line

Distance running:

• Remember to breathe in through your nose and out through your mouth.

• Run in a relaxed fashion, with shoulders relaxed, taking nice long strides to cover more ground

• Build up distances to try and run continuously



Westhoughton High School-ACTIVITY: CRICKET

Batting: Basic Straight Drive	Bowling: Basic	Fielding:
 Stand with feet shoulder width apart and parallel to the batting crease. 	 Grip Place your thumb on the seam of the ball. 	Catching
 Slightly flex knees and keep weight evenly distributed. 	 Place your index finger on the seam, opposite your thumb. 	 <u>English (orthodox catch)</u>-Aim to catch at the base of your fingers. Bring the ball into your body
 Rest the hand and top of bat gently against the inside thigh of your front leg with the bat resting on the floor at a 45° angle. 	 Hold the ball so that the seam is parallel to your index finger. Place your middle finger to the right of the seam, 	 <u>Australian (reverse cup)-</u> Attempt to catch at eye- level and keep your hand high. Watch the ball the whole time until it hits your hands.
Keep your head over the front foot and face the	approximately a quarter of the way down the ball.	Throwing
 bowler. As the bowler approaches, the bat should remain close to the body but brought upward, bending 	 Wrap your ring finger and pinky into a loose fit. <u>Release</u> Carry the ball close to your chin. Coil your body and 	 <u>Overarm-</u> bring arm behind head, and transfer power from back foot to front foot. Used over
both elbows, until the bat is parallel to the shoulders.	 lean back. Drop your elbow and pant your leg bowling leg. 	 <u>Underarm</u>- swing arm from back to front, release ball when hand pointing at target.
 As the ball is released, move the front foot behind the front knee and chest and keep the back leg straight and foot planted. 	 Straighten your elbow and arm. Shift your weight to the lead leg. Thrust your bowling shoulder forward. 	 Long Barrier Long barrier: Kneel side on with foot next bent leg, pick ball up side on.
 The head should be level with the front knee, with the back foot raised up to the toes. 	 Snap your wrist forward just before you release the 	Short Barrier
 On contact, the bat accelerates vertically through a straight path, keeping elbows bent and locked, unti 	• Release the ball.	and pick up ball.
the face of the bat is pointing to the sky.	Follow through properly.Bend your elbow.	
	~TQL IRT R	

Westhoughton High School-ACTIVITY: Cricket

Rules:

- → Two teams, play an innings of batting and bowling.
- →When one team is batting, try and score as many runs as they can by hitting the ball around a set boundary.
- →The bowling team can get the batsmen out by hitting the stumps or catching the ball.
- →Once the batting team is all out, the teams swap over and they then become the bowling side.

Scoring System:

→One run is scored each time the batsmen cross and reach the set of stumps at the other end of the pitch.
→Four runs can be scored if the ball reaches the perimeter of the field
→Six runs if it crosses the perimeter without bouncing.



Key Words:

Wicket Keeper Batsman Bowler Long Barrier Hand eye co-ordination Catch Stumps Seam Leg before wicket Over Spin Umpire

Positions:

- → Wicketkeeper: The wicket keeper stands behind the batsman, and is responsible for catching the ball in their gloves if the batsman edges, misses or leaves the ball.
- → Point: Fielding position square of the wicket on the off side of the batsman.
- → Mid-off: Fielder should be positioned just a bit wider than straight on the off side of

the field.

- →Mid-on is the same position as midoff on the on side.
- → Cover:Fielding position is just in front of square on the off side.
- → Square leg: The fielder is located square of the wicket on the leg side of the field.
- → Mid-wicket is a position in front of square on the leg side of the batsman

Tactics:

- → Fielding: Place players in positions where the batsman may give a catch, to a fielder and to save runs or to block the path of the ball from the batsman's scoring strokes Backing up the ball from a fielders throw.
- → Bowling: The location varies
 with the pace of the bowler, the state of the pitch, and the reach and technique of the batsman. The second is the direction. On this foundation a bowler may elaborate
 with variations of spin bowling
 → Batting: A forward stroke in
 which the batsman advances his front leg to the pitch of the ball and

plays it in front of the wicket. This is the best way to score runs with control.

WESTHOGHTON HIGH SCHOOL -ORIENTEERING

Skills and Techniques: → Directions: 4 key compass	Diagrams and Symbols:	Positions: → The main aim of orienteering is to complete the	Key Features:	Key components: →Map
 → Directions: 4 key compass directions: North, South, East, West More complex compass directions: North East, North West, South East and South West → Map Reading: Recognise symbols on a map. Understand that maps and aerial view pictures are not the same. Recognise these features on aerial photographs → Human features: Know that 	Map Symbols: Open Grass Rough Open Grass Garden Undergrowth Sandpit Tarmac Buildin g All weather pitch	orienteering is to complete the set course by finding control markers in the correct order in the shortest time. → Although it Is based on accurate map reading it is also a test of physical fitness. → You must find all the controls you are told to visit and record them on your score sheet.	 → Orienteering control ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	A diagrammatic representation of an area showing physical features → Key Explains the meanings of symbols → Route A way from getting from a starting point to a destination → Location The place where something is → Orienteer To find your way across areas
a human feature, is influenced by man (Road, cities, churches). Recognise these on a map → Physical Features: Know that a physical feature, is natural (Forest, rivers, beaches, hills) Recognise these on a map → Directional language: To describe the physical and human features in a location or a route.	 All weather pitch Canopy Steep Bank Lamp Post Flag Pole Tree Goal Post Netball Post Orienteering Point Outer 	 → You have to consider the terrain you are moving over ensuring your safety and the safety of any team members at all times, taking into account the varying fitness level of all your team members. → In order to be given a finish time for finding controls the whole team has to finish together 	Cardiovascular Fitness Setting a Map Navigation Adventurous Diverse Direction Key Catchment features Terrain Map Compass Control point Thumbing Attack points	using a map. → Grid reference map reference indicating a location in terms of a series of vertical and horizontal grid lines → Latitude Imaginary lines north and south of the equator → Longitude Imaginary lines from East to West around the globe

WESTHOUGHTON HIGH SCHOOL KS3 PE KNOWLEDGE ORGANISER - ACTIVITY: BOLTON ROUNDERS (FLATBAT)

Fielding: Catching

- Eyes focused on the ball.
- Feet move to place body in line with ball.
- Hands move to meet the object.
- Hands and fingers relaxed and slightly cupped to catch the ball.
- Catches and controls the ball with hands only (well-timed closure)
- Elbows bend to absorb the force of the ball.





Fielding: Throwing Underarm throw used in a short distance.

- Stands face on to direction of throw.
- Eyes focused on target
 area..
- Steps forward with opposite foot to throwing arm.
- Well timed release.
- Follows through with straight arm.



Overarm throw used in a long distance.



Bowling

- Grip the ball between three fingers
- Step into the bowling action
- Release the ball at weight height
- Variation in speed and height will enable you to outwit the opponent
- To add spin, twist your wrist as you release the ball

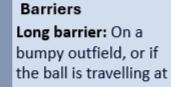




Batting

Batting: One hand on the bat, have the fat side facing the bowler and with a slight tilt. Bend your knee and transfer your weight from the front to the back





speed



Short barrier: Used to pick the ball up at pace

Key Words:

Batting Bowling Deep Fielding Obstruction Power Accuracy Throwing Catching Umpire Stumping No ball Hit out **Running Out** Rounder Barrier Variation Reaction time Spatial awareness Momentum



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WESTHOUGHTON HIGH SCHOOL KS3 PE KNOWLEDGE ORGANISER - ACTIVITY: BOLTON ROUNDERS (FLATBAT)

Tactics:

- → Batters run round the inside of the posts
- → fielders have a field in 'the slips' to the right of the batter
- → Adapt fielding positions according to strengths and weakness of the batters
- → Move your fielding position once you have established how each batter hits the ball is a sign of good fielding
- → Always focus on the batter that has just hit the ball as they are scoring.
- → Batters should think about how they hit ball according to the positioning of the fielders and also an understanding of how many points they need to win a point.

→ Each team can have a minimum of 6 players on the pitch at any one

Rules:

- time.11 players are on a team. → Bowler must bowl the ball in the bowlers pitch
- → Lawn tennis balls must be used
- → The ball must be bowled above the knee of the batter, below the top of their head. Batter can only
- hold the bat with one hand

→ The batters foot must be on the edge of the batters square and stay planted when hitting the ball.

→ The ball can be hit forwards or backwards

- → A batter will be out if, after making a scoring shot from a good ball, the ball is caught by a fielder without it touching the ground.
- → The batter, while running to a base, is out if she is touched by the fielder

ball from one of the fielding side.

→ A batter is out if first base is stumped before she reaches it.

f → First base this is the only base you can stump and player out.

Positions:

→ Baller must bowl the ball in the bowlers pitch

→ Fielders spread out around the pitch

→ Backstop must stand on the line behind the batting square



(12 yards) 11 Metres

66 yards

11 Metres (12 yards)

11 Metres (12 yards)

2nd B

5.5 Matrix

Scoring System:

→ The batter will receive 1 point for every base they reach.

 → If the touch all four base without being caught out they receive 6 points.
 → If the batter is out they keep the points reward until that point. E.g. if the batter is touched by the all between 3rd and 4th base they would achieve 3 points and out.

→ If the bowler bowls a 'bad ball' the batting team receive 1 point.



Bowling Deep Fielding Obstruction Power Accuracy Throwing Catching Umpire Stumping No ball Hit out Running Out Rounder Barrier Variation Reaction time Spatial awareness Momentum





WESTHOUGHTON HIGH SCHOOL KS3 PE KNOWLEDGE ORGANISER - ACTIVITY: SWIMMING

Skills and Techniques: Back Crawl

→ Body position Horizontal Streamlined Head still Eyes looking upward Hips close to surface

→ Leg Action Continuous up and down motion Legs close together Relaxed ankles

→ Arm Action Thumbs leave the water first Little finger entry Skills and Techniques: Front Crawl

→ Body position Flat and streamlined Eyes looking forwards and downwards

> → Leg Action Continuous and alternating Starts from the hip Ankles relaxed

→ Arm Action Thumb enter the water first Enter between the head line and shoulder line Elbow exits first

→ Breathing Head rolls to the side to breath Bilateral breathing Skills and Techniques: Breaststroke

→ Body position As horizontal as possible Shoulders horizontal

→ Leg Action Starts in glide position Heels drawn towards the seat Feet turned out Kick backwards with a circular whipping action

→ Arm Action From glide position, hands turn outwards Pull downwards and outwards to inline with shoulders Arms meet in the centre of the body and drive out to glide position

Skills and Techniques: Butterfly

→ Body position Horizontal, with a wave like movement from head to toe Shoulders kept level

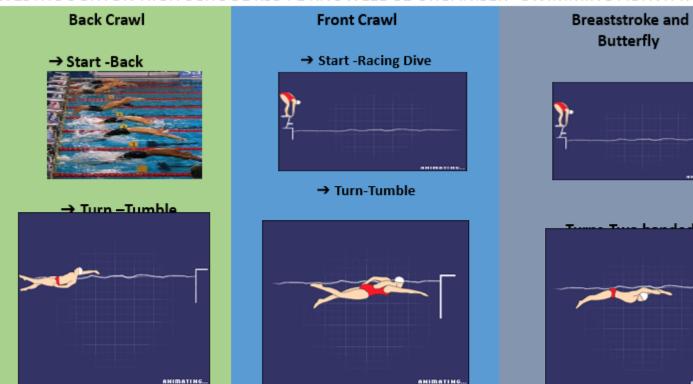
→ Leg Action Legs close together Ankles relaxed toes pointed Action starts from the hips Kick up and down with a bend at the knee

→ Arm Action Thumb first entry Entry shoulder width apart Pull downwards, with bent elbows Hands leave the water little finger first Arms clear the water just above the surface

→ Breathing Lift head and push chin forwards Head lowered quickly but smoothly



WESTHOUGHTON HIGH SCHOOL KS3 PE KNOWLEDGE ORGANISER -SWIMMING ACTIVITY:



Racing start-Front crawl, breaststroke and butterfly

- 1: Chin and chest
- 2: Arm above head, squeeze ears
- 3: Tip forward
- 4: Hips high
- 5: Stretch out

Tumble turns

Stage one

WH'S

- Swim toward the turning wall.
- Ensure you breathe on the last stroke before turning.
- On the last stroke, bring both arms down and next to the hips.
- Keeping the body straight, hold feet approximately 20 cm under the water surface.

Stage two

- Bring the arms up and swing over the head whilst brushing the upper arms against the ears.
- Tuck chin into chest and begin rotating body forward.
- On complete rotation, push against the wall with the balls of the feet and kick a minimum of four times to generate pace.
- Complete one full stroke before returning to breathing pattern.

Key words

ANIMATING.

Splits, Pacing, Negative spilt, positive split, Even split, False start, Technical official,

WESTHOUGHTON HIGH SCHOOL KS3 PE KNOWLEDGE ORGANISER - ACTIVITY: SWIMMING

Scoring Success in swimming is judged on times and places.

Start of the race

Races are started with electronic pistols and are only sounded again if an athlete makes a false start.

Finish the race

In all races swimmers must strike a pressure pad at the end of their lane to stop the clock.

Officials

Starter

Clerk of course - these people line up competitors in correct order, ready for starting.

Timekeepers, Inspectors of turns ,Judges of stroke ,Finish judges

Disqualifications are also a result of technical rules violations. These include:

WH'S

- **freestyle** stepping or walking on the bottom of the pool, pulling on the lane rope, not touching the wall on a turn, or not completing the distance
- backstroke not remaining on the back throughout the swim except when turning, pulling or kicking into the wall once turning past the vertical onto the breast, turning onto the breast before touching the wall with the hand at the finish of the race
- **breaststroke** not swimming on the breast, an illegal kick such as flutter, dolphin, or scissors, non-simultaneous movements of the arms, taking two arm strokes or two leg kicks while the head is underwater, or touching with only one hand at the turns or finish instead of two
- butterfly non-simultaneous movements of the arms or legs, pushing the arms forward under the water instead of over the water surface, using a breaststroke-style kick, or touching with only one hand at the turns or at the finish instead of two



Year 8 Term 3: Health Knowledge Organiser

USER GROUPS in Sport/Fitness

- Young children
- Teenagers
- People with disabilities
- Parents (singles or couples)
- People who work
- Unemployed/economically disadvantaged people

- Gender
- People from different ethnic groups
- Retired people/people over 60
- Families with children
- Carers

People with family commitments

Barriers faced by user groups

- Employment and unemployment
- Family commitments
- Lack of disposable income
- Lack of transport
- Lack of positive sporting role models
- Lack of positive family role models or family support
- Lack of appropriate activity provision
- Lack of awareness of appropriate activity provision
- The lack of equal coverage in media in terms of
- gender and ethnicity by the media

NUTRITION:

A balanced diet consists of six essential nutrients:

1.Carbohydrates – The body's main energy source, found in foods like grains, fruits, and vegetables.

2.Proteins – Essential for growth, repair, and muscle maintenance, sourced from meat, beans, and dairy.

3.Fats – Provide long-term energy and support cell function, found in nuts, oils, and fatty fish.
 4.Vitamins – Support immune function, metabolism, and overall health, present in fruits, vegetables, and dairy.

5.Minerals – Aid in bone strength, nerve function, and hydration, including calcium, iron, and potassium from leafy greens, dairy, and meat.

 Water – Essential for hydration, digestion, and temperature regulation, making up a large portion of the body.

ROLE OF MACRO NUTRIENTS IN SPORT

Carbohydrates – The primary energy source for athletes, carbohydrates fuel endurance and high-intensity activities by providing glucose, which is stored as glycogen in muscles and the liver. They help maintain stamina, delay fatigue, and support quick recovery.

Proteins – Essential for muscle repair, recovery, and growth, proteins aid in rebuilding muscle fibers damaged during exercise. They also support immune function and contribute to enzyme and hormone production necessary for athletic performance.

Fats – A secondary energy source, fats provide sustained energy for long-duration, low- to moderate-intensity activities. They help preserve glycogen stores and support overall endurance, particularly in endurance sports like marathon running or cycling.

NUTRITION:

- Carbohydrates are essential in sporting activity because they provide a quick and efficient source of energy, fueling muscles and sustaining performance during exercise.
- Hydration is crucial as it regulates body temperature, maintains electrolyte balance, and prevents dehydration, which can impair endurance, strength, and overall athletic performance



TRAINING PRINCIPLES:

Training thresholds refer to intensity levels that determine the effectiveness of an exercise program. There are two key thresholds:

1.Aerobic Threshold (50-70% of maximum heart rate) – The point where the body starts using oxygen efficiently for sustained activity, improving endurance.

2.Anaerobic Threshold (80-90% of maximum heart rate) – The intensity at which lactic acid accumulates faster than it can be cleared, enhancing high-intensity performance and muscle strength.

KARVONEN PRINCIPLE

The **Karvonen Principle** calculates target heart rate for optimal training intensity using the **Heart Rate Reserve (HRR)** method:

•HRR = Maximum Heart Rate (220 - age) - Resting Heart Rate
•Intensity % = Desired effort level (e.g., 60-85% for aerobic training)
•Resting Heart Rate (RHR) = Measured at rest, indicating baseline fitness
This formula personalizes training zones, ensuring workouts are effective and aligned with fitness goals.

FITT Principle

The **FITT Principle** is a guideline for structuring effective workout programs. It stands for:

1.Frequency – How often you exercise (e.g., 3-5 times per week).

2.Intensity – How hard you work out (e.g., moderate or high intensity, based on heart rate or weight resistance).

3.Time – Duration of the exercise session (e.g., 30-60 minutes).

4.Type – The kind of exercise performed (e.g., cardio, strength training, flexibility).

Year 8 Term 3: Health Knowledge Organiser

	HRmax = 220 - age
	Karvonen formula
% HRR =	([HRmax - RHR] x % intensity) + RHR

ANAEROBIC VS AEROBIC EXERCISE

- Aerobic exercise, like jogging or cycling, uses oxygen to produce energy, primarily generating carbon dioxide and water as byproducts.
- Anaerobic exercise, like sprinting or weightlifting, occurs without oxygen, producing lactic acid as a byproduct.

Energy Sources for Aerobic and Anaerobic Exercises

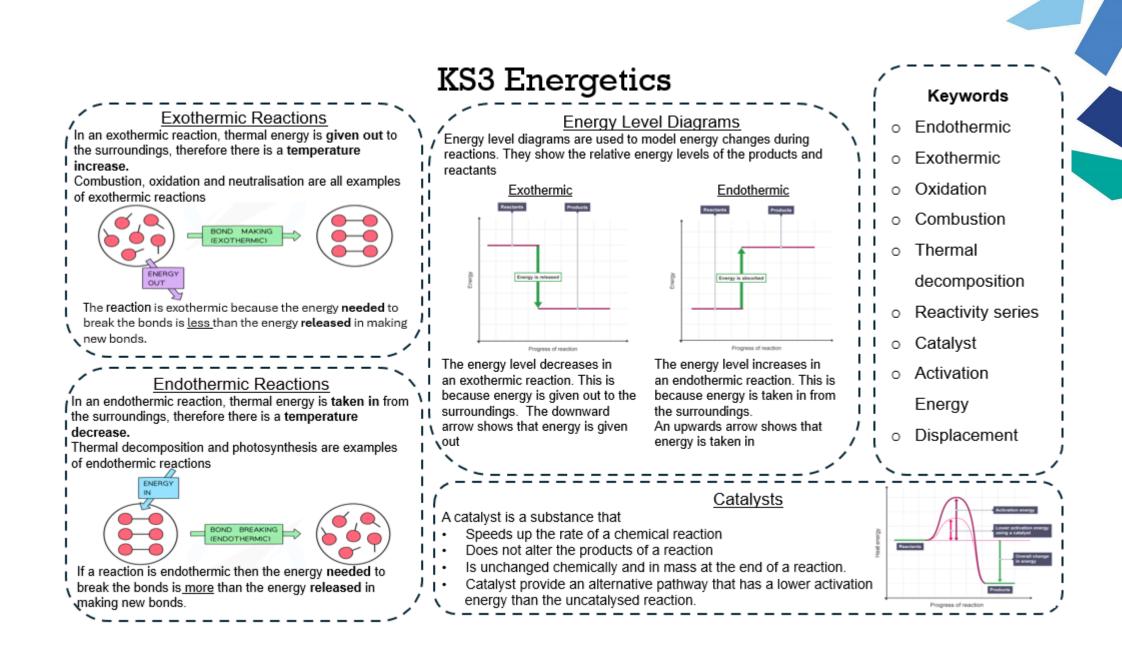
Aerobic Exercise (With Oxygen)

- Uses carbohydrates (glucose/glycogen) and fats as the primary energy sources.
- During prolonged, low-to-moderate intensity activities (e.g., jogging, cycling), the body primarily relies on **fat** oxidation for sustained energy.
- Oxygen is required to break down these fuels efficiently, producing ATP, water, and carbon dioxide as byproducts.

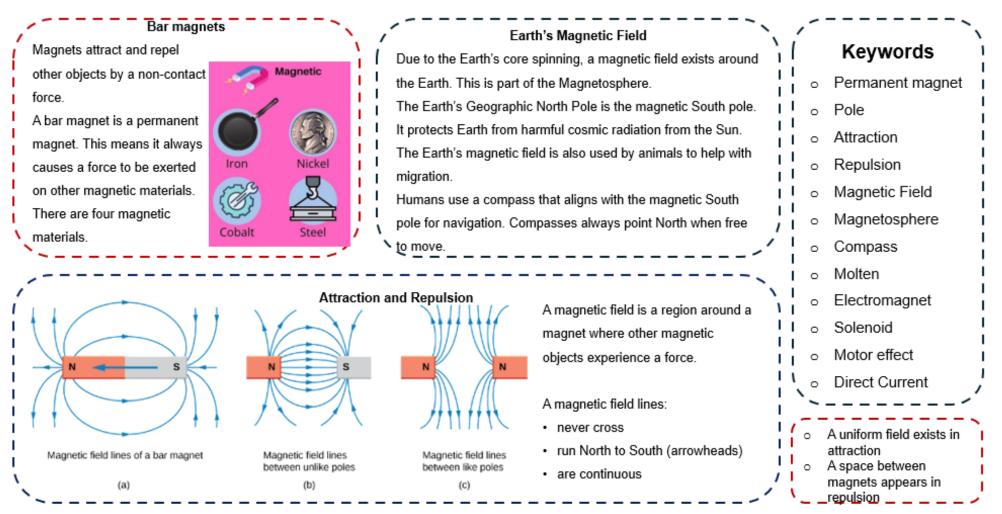
Anaerobic Exercise (Without Oxygen)

- 1. Uses stored ATP, creatine phosphate (CP), and glycogen as quick energy sources.
- During short bursts of high-intensity activities (e.g., sprinting, weightlifting), the ATP-PC system and anaerobic glycolysis supply energy.
- Lactic acid is produced as a byproduct when glycogen is broken down without oxygen, leading to muscle fatigue.

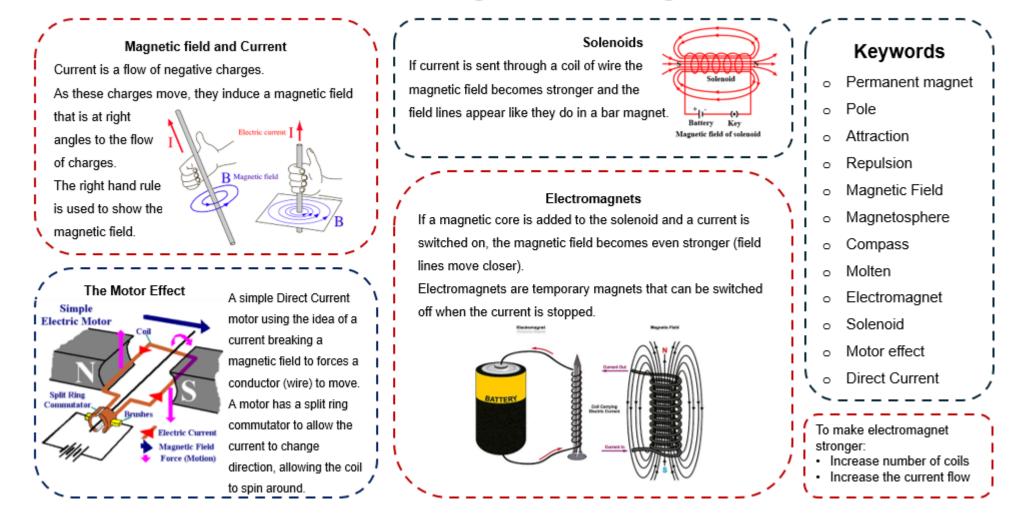
	Life Lessons – Summer Term KS3 - Living in the Wider World	
Topics	For Further Information and Advice	
Money Matters	 Stepchange: Free debt advice charity 0800 138 1111 The Kings Trust: use the QR code to access budgeting and saving resources. 	
Responsible internet use	 Are you worried about online sexual abuse or the way someone has been communicating with you online? Contact CEOP (Child Exploitation and Online Protection). Use the QR code of search for CEOP online. 	
The protected characteristics	The 9 protected characteristics in the Equality Act 2020 are: Age Disability Gender Reassignment Race Religion or Belief Sex Sexual Orientation Pregnancy & Maternity Marriage & Civil Partnership For more information about the Equality Act, scan the QR code. Citizens Advice: Provides information and advice on issues such as discrimination because of race and/or religion 0800 144 8848.	
Your Rights	The Universal Declaration of Human Rights is a document that protects the rights of every individual, everywhere. It was created by the United Nations in 1948, in response to the "barbarous acts" of the Second World War. Its adoption recognized human rights to be the foundation for freedom, justice and peace.	
Young Carers	 You're a young carer if you're under 18 and help to look after a relative with a disability, illness, mental health condition, or drug or alcohol problem. For advice and support with care issues, call the Carers Direct helpline on 0300 123 1053. Search for Carers Trust and find the Young Carers Page. 	
Criminal Behaviour (County Lines and Kinfe Crime)	You can report an incident of knife crime by calling 101 or talking to us via LiveChat at www.gmp.police. Always dial 999 in an emergency. Help is also available via CrimeStoppers on 0800 555 111, or using the QR code for the Fearless anonym	
R	What is county lines? County lines is a criminal activity where drug dealers in big cities use other people (typically young and/or vulnerable) to carry, store, and sell their drugs in smaller towns and rural areas. Use the QR code to find out more.	



KS3 Electromagnetism: Magnetism



KS3 Electromagnetism: Magnetism



KS3 Waves

