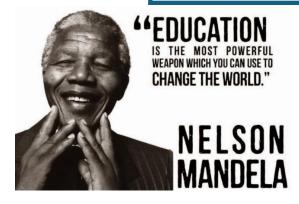


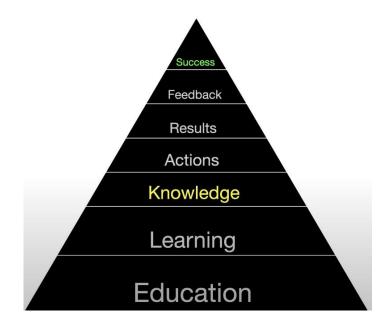
Westhoughton High School

Year 7 – Summer Term - Knowledge Organisers



the "Knowledge" pyramid

Name:
Form Group & Room:
Form Tutor:

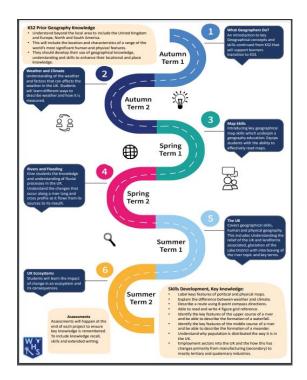




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Introduction

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 all 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 7 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 techniques to learn small sections of knowledge each day.

	Look, Say, Cover, Write, Check	Key Word Definitions	Flash Cards	Self Quizzing	Mind Maps	Paired Retrieval
STEP 1	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 2	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 flashcards.	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.

Check what you have written down. Correct any mistakes and add anything you missed in purple pen.



Use a purple pen to check and correct your work



Ask a friend or family member to quiz you on your knowledge.



Ask a friend or family member to quiz you using the questions.



Try to make more connections, link the information together where you can.



Repeat this regularly so that you are frequently looking at KOs past and present.



How to make learning stick...

3

STEP

Mind Mapping

Mind mapping is a great way of representing key information from a topic in a visual way. Use colour and images to represent the knowledge you need to learn. Keep writing to a minimum; use only keywords/phrases.

Flash Cards



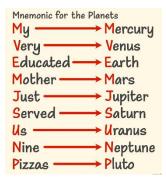
Make flash cards using your KO. Write a question on one side and the answer on the other or record key- words and definitions. Test yourself frequently.

Look, Say, Cover, Write, Check



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,

Key Word Mnemonics



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

Revision Clocks



Draw a basic clock and break your KO down into 12 chunks. Make notes on each chunk in the 12 clock sections, use colour and images to make it memorable. Revise each section for 5 minutes, turn

Watch the clip for more tips and advice.



For more advice, scan the code.



write it down and then check it is correct. group of facts/words in a certain order.



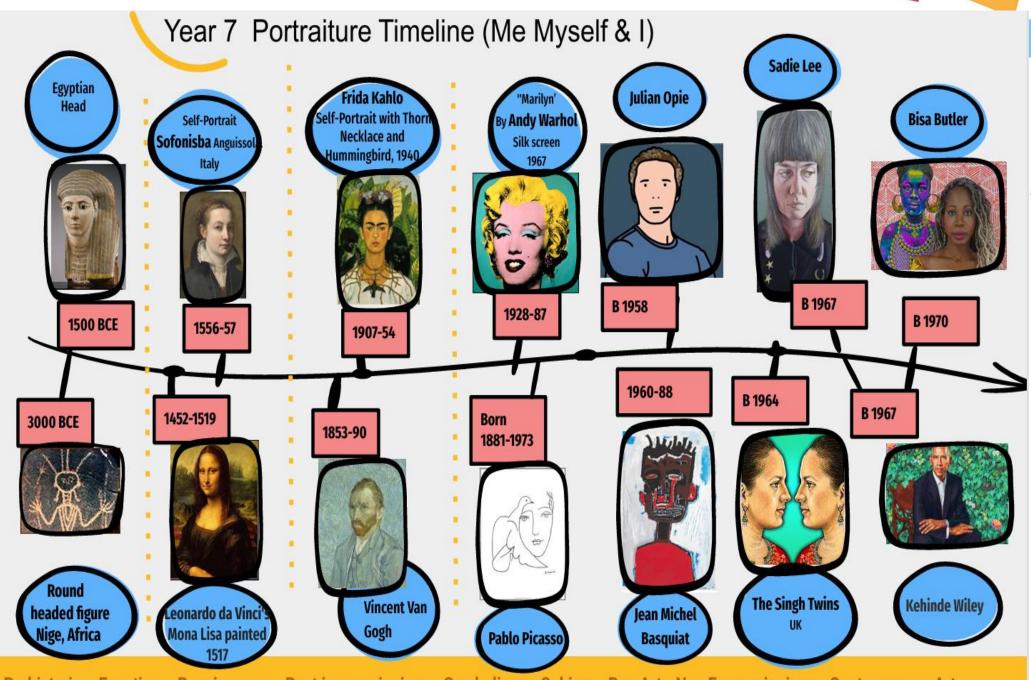
over and test how much you can recall.

Watch the clip for more tips and advice.





	Key words & Definitions				
1	Clashing	To 'not match' or 'not work together' in colour or tone			
2	Continuous line	Without pausing or stopping			
3	Cool colours	Calming colours that can recede into background			
4	Complementary Colours	Colours that are opposite each other on the colour wheel ,they do not blend			
5	Ghana	West African country			
6	Harmoniaus colours	Colours that blend well together : near to each other on the colour wheel			
7	Heritage	Family background/tradition			
8	Identity	Who a person is, what makes them unique.			
9	Kente Cloth	Ghanaian patterned textile			
Ю	Pattern	Arrangement of repeated shapes			
11	Proportions	The relationship (in size) of several things			
12	Self Portrait	A portrayal of oneself			
13	Symbol	An shape that represents something			
14	Guilting	A sewing technique in which two or more layers of fabric, are sewn together.			
5	Warm colours	Colours that have links to the sun & fire			



Prehistoric - Egyptian - Renaissance - Post impressionism - Symbolism - Cubism - Pop Art- Neo Expressionism - Contemporary Art

Binary

Binary is a number system that only uses two digits: 1 and 0. All information that is processed by a computer is in the form of a sequence of 1s and 0s. Therefore, all data that we want a computer to process needs to be converted into binary.

The binary system is known as a 'Base 2' system. This is because: There are only two digits to select from (1 and 0). When using the binary system, data is converted using the power of two.

128	64	32	16	8	4	2	1
-----	----	----	----	---	---	---	---

Example Binary To Denary

8 BIT TABLE

Q: Convert 00011000 to denary

128	64	32	16	8	4	2	1
0	0	0	1	1	0	0	0
			16	8			

Denary

Denary uses a 'Base 10' number system.

Example Denary To Binary

Q: Convert 12 to binary A: 00001 00

128	64	32	16	8	4	2	1
				8	4		
0	0	0	0	1	1	0	0

Adding Binary

Binary is a number system that only uses two digits: 1 and 0. When two numbers are added together in <u>denary</u>, we take the first number, add the second number to it and get an answer. For example, 1 + 2 = 3.

When we add two binary numbers together the process is different.

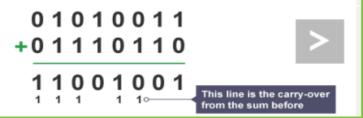
There are four rules that need to be followed when adding two binary numbers. These are:

- 0 + 0 = 0, 1 + 0 = 1, 1 + 1 = 10 (said one zero and is binary for 2)
- 1 + 1 + 1 = 11 (said one one and is binary for 3)

Example

Let's try adding together two binary numbers: 0101 0011 and 0111 0110.

To get to the answer, use the following method:



ASCII

ASCII (American Standard Code for Information Interchange) codes represent text in computers, communications equipment and other devices that use text.



Hexadecimal

This is a quick way to write down binary values in a more manageable way.

This uses a 'Base 16' number system.

Conversion Table

Binary	Denary	Hexadecimal
0000	0	0
0001	1	1
0010	2	2
0011	3	3
0100	4	4
0101	5	5
0110	6	6
0111	7	7
1000	8	8
1001	9	9
1010	10	Α
1011	11	В
1100	12	С
1101	13	D
1110	14	E
1111	15	F

Computing— DTP KO Name_____

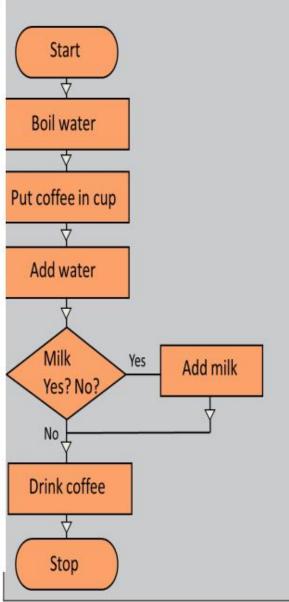
Tool	What it is used for ?
Desktop publishing Image Ed- iting/Graphics Software	Software programs that allow you to manipulate digital images.
Business card	A card the size of a credit card (8.5cmx5.5cm) that displays contact information for an individual employed by a company
Letterhead	A letterhead is a printed heading that goes on to letters/documents sent from businesses.
Flyer	A flyer is a form of paper advertisement intended for wide distribution and typically posted or distributed in a public place or through the mail.
	Flyers may be used by individuals, businesses, or organizations to:
	Advertise an event or a business as a whole such as a food/drink establishment.
Text	This tool allows text to be typed onto the current layer using the Primary colour. The Text Controls in the Tool Bar can be used to change the font.
Logo	Logos serve to represent a given organization or company through a visual image that can be easily understood and recognised. A logo generally involves symbols, stylized text or both. Logos are often created by a graphic artist in consultation with a company and marketing experts.
Adjust white balance levels	White balance is the adjustment of a digital photograph to make its colours appear more realistic
File Formats for digital Graphics	PSD, TIFF, PNG, JPEG, GIF
Best file type for printing	TIFF
Best file type for online use	PNG/JPEG PNG/JPEG

Computing—Flowol

Flowchart Symbols

Symbol	Name	Function
	Process	Indicates any type of internal operation inside the Processor or Memory
	input/output	Used for any Input / Output (I/O) operation. Indicates that the computer is to obtain data or output results
	Decision	Used to ask a question that can be answered in a binary format (Yes/No, True/False)
	Connector	Allows the flowchart to be drawn without intersecting lines or without a reverse flow.
	Predefined Process	Used to invoke a subroutine or an Interrupt program.
	Terminal	Indicates the starting or ending of the program, process, or interrupt program
↑↓ ⇆	Flow Lines	Shows direction of flow.

Coffee Example



Core Technical Principles : Timbers

Hardwoods

Hardwood is from a deciduous tree, usually a broad-leafed variety that drops its leaves in the winter

Ash

Properties: Flexible, tough and shock resistant, laminates well. Pale brown Uses: Sports equipment and tool handles

Beech

Properties: Fine finish, tough and durable. Beige with pink hue Uses: Children's toys and models, furniture, veneers.

Balsa

Properties: Very soft and spongy, good strength to weight ratio. Pale cream/white

Uses: Prototyping and modelling

Oak

Properties: Tough, hard and durable, high quality finish possible. Light brown

Uses: Flooring, furniture, railway sleepers, veneer's

Mahogany

Properties Easily worked, durable and finishes well. Uses: High end furniture and joinery, veneers. **Softwoods**

Softwood is from a coniferous tree, one that usually bears needles and has cones

Pine

Properties: Lightweight, easy to work, can split and be resinous near knots. Pale yellowish brown Uses: Interior construction, furniture

Larch g

Properties: Durable, tough, good water resistance, good surface finish. Pale reddish brown.
Uses: Exterior cladding, decking, flooring, machined moldings, furniture and joinery. Railway sleepers and veneer's

Spruce

Properties: Easy to work, high stiffness to weight ratio. Creamy white

Uses: Construction, furniture and musical

instruments

Manufactured boards

Manufactured boards are usually sheets of processed natural timber waste products or veneers combined with adhesives. They are made from waste wood, low-grade timber and recycled timber.

Chipboard



Properties: Good compressive strength, not water resistant unless treated, good value but prone to chipping on edges and corners Uses: Flooring, low-end furniture, kitchen units and worktops

MDF (Medium density Fiberboard)

Properties: Rigid and stable, with a smooth, easy to finish surface. Very absorbent so not good in high humidity or damps areas.

Uses: Good value, flat pack furniture, toy's, kitchen units and internal construction



Properties: Very stable in all directions due to alternate Layering at 90, with outside layers running in the same direction.

Uses: Furniture, shelving, toys and construction, interior, exterior and marine grades available for greater water resistance.

New and Emerging Technologies - Sustainability

Sustainability looks to protect and maintain the needs of the present without compromising the ability of future generations to meet their needs.

Designers now have a better understanding of which materials are sustainable, which are not, and the effect that overharvesting and over consumptic

Finite resources

Finite resources are in limited supply and are being used more quickly than can be replaced. Use of finite resources should be avoided where possible or used only in small amounts for essential reasons where an alternative cannot be used. Fossil fuels, some materials and metal ores are examples of finite resources

Non-finite resources

Non-Finite resources are in abundant supply and are unlikely ever to be exhausted. They can be grown or replaced at the rate that they are being used. Examples include solar and wind energy, timbers and cotton.

Life Cycle

Assessment

(LAC)

Conducting a Life Cycle Assessment (LAC) is a way for companies to assess the environmental impact of a product during the different stages of a products life.

Waste disposal

Careful planning of waste disposal has many positive effects, particularly in large scale manufacturing plants. Waste materials can be reused internally for alternative parts and products. Some of the cost of materials is recouped through the same sale of recyclable waste. The energy used to heat and power a business may also be generated from waste material such as biomass.

1. Extraction and processing:

The amount of energy used to extract raw material from the earth, or to produce it through farming or other methods, and process it ready for manufacture.

> 5. Recycled/repurposed back into the cycle

5. Disposal

2. Manufacturing and production:

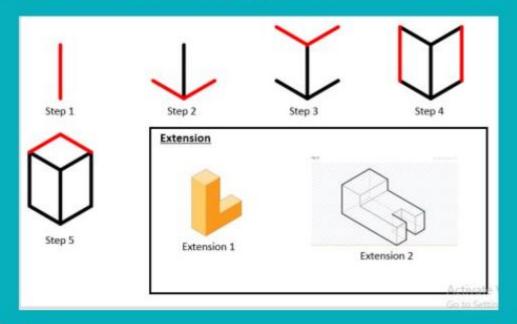
The energy required to manipulate the raw and refined materials into a product ready for sale.

3. Distribution:

The packaging and transportation of the product to the

Isometric Sketching

Draw five accurate cubes and then complete the two extension shapes.



Freehand

Freehand sketching is drawing without using any equipment and is the quickest way to communicate a design.

- Use 2D and 3D sketches next to each other to help communicate and explain an idea.
- Use annotations to explain your idea in more detail e.g. materials, how it's made and how it will be used.
- Some colour can help show off key parts of the design, or give a background to the design to give it more visual depth.

3D Modelling

Making a physical model of your design allows you to see how your design interacts with users and spaces. The model can be to a smaller scale or be full scale. A model is often made of inexpensive materials such as paper, card, modelling foam or manufactured board.

A 3D model can allow you to test parts of your design to the specification, to see how well they work and develop the design further.

CUTTING/SHAPING

TENON SAW

Used for cutting timber in straight lines. Thick blade prevents the blade from deviating.



COPING SAW

Used for cutting unusual and difficult shapes with thin a blade.

DRILLING

PILLAR DRILL

Good for accuracy when drilling timbers. The Pillar Drill is powerful enough to drill large holes through thick material. Selecting the correct drill bit and speed is very important.



Scale

Scale is the size of the product being sketched or modelled. A full scale drawing or model is the exact same size as the final product. Large products are often drawn at smaller scales, such as furniture and cars, and small products will be drawn at larger scale, such as cameras and circuit diagrams.

Scales are written as ratios. For example, a 1:2 scale is half the size, 1:4 means an quarter of the size and 1:1 means it is full size.

Knowledge organiser: Year 7 Food & Nutrition

Personal hygiene

Personal Hygiene is the practice of good personal hygiene to help prevent cross-contamination and foodborne illness



Wear an apron



Do not eat during a practical.



Blue plasters should be worn.



Wash hand thoroughly with antibacterial soap.



Hair must be tied back



watches and jewellery during a practical

Health & Safety in the kitchen

Health & Safety in the kitchen

is the practice of being able to work in the kitchen area safely, preventing harm or injury to anyone and keeping the space clean & tidy



Ensure food isn't left unattended.

Wear oven gloves

when adding and

removing items

from the oven



and draws are closed.



Any spills are cleaned and/or mopped.



nives must be stored safely and returned to the teacher

Food safety

Food safety is the practice of properly handling, preparing and storing food in ways that prevent food-borne illness



Cook food to the correct temperatures



Use the correct chopping boards



Don't mix or prepare raw and cooked foods together

Food hygiene

Food hygiene is the practice of properly chilling, cooking, cleaning food and avoiding cross-contamination to prevent the spread of bacteria in food.



Ensure food is stored at the correct temperature



Do not overfill the bins.



Meat, fish, vegetables etc must be prepared separately.



Food should be covered and stored correctly.



Wipe all surfaces down with antibacterial spray.



Washing-up must be completed during a practical.

Micro-organisms

A micro-organism (also known as a microbe) is a tiny, single-celled living plant or animal that you can only see under a microscope. Micro-organisms spoil food because they contaminate it with their waste products. There are three groups of micro-organisms that cause food poisoning; bacteria, mould and yeast. To grow they need the following conditions:











Key Temperatures

Food must be stored and cooked to the correct temperatures to avoid food poisoning and food spoilage.

- 121°C all bacteria is killed
- 100°C The boiling point of water
- 75°C The temperature that the centre of all cooked food should reach for at least 2 minutes
- 5°C-63°C The danger zone where bacteria multiplies the most
- 0°C-5°C The fridge temperature
- -18°C- -24°C -freezer range

Claw Technique



Bridge Technique



Knife skills

We expect you to be able to use the equipment safely and correctly in your Hospitality & Catering lessons.

- When using a knife, we expect that you are sensible at all times and that there are no injuries or causes for concern.
- When collecting your knife from the teacher, you must walk slowly and hold the knife at your side with the blade facing the floor.
- When at your place, the knife should be clearly visible on the table at all times unless you are using it to chop.
- When cutting, you must use the 2 methods you will be taught; the bridge method and the claw method.
- Remember, any issues of unsafe behaviour will result in you being removed from practical lessons.

lots of bacteria that can contaminate your hands.

Personal Hygiene

Do not cough or sneeze next to food or put your fingers into

Wash and dry your hands thoroughly before handling food

The mouth, throat, teeth and gums contain billions of

A clean apron gives a barrier between food and your

clothes. Jewellery and watches can become clogged with

Objects outside of the kitchen, such as door handles have

food and lick them, then try the food again.

and regularly through food preparation.

bacteria; some of which are pathogenic.

Subject:

Food Preparation and Nutrition

The Eatwell Guide

- Comprises 5 main food groups.
- Is suitable for most people over 2 years of age.
- Shows the proportions in which different groups of foods are needed in order to have a well-balanced and healthy diet.
- Shows proportions representative of food eaten over a day or more.



Fruit and vegetables

- This group should make up just over a third of the food eaten each day.
- Aim to eat at least five portions of a variety each day.
- Choose from fresh, frozen, canned, dried or juiced.
- A portion is around 80g (3 heaped tbs).
- 30g of dried fruit or 150ml glass of fruit juice or smoothie count as a max of 1 portion each day.



Potatoes, bread, rice, pasta or other starchy carbohydrates

- Base meals around starchy carbohydrate food.
- This group should make up just over a third of the diet.
- Choose higher-fibre, wholegrain varieties.

Fibre

- Dietary fibre is a type of carbohydrate found in plant foods.
- Food examples include wholegrain cereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, seeds.
- Dietary fibre helps to: reduce the risk of heart disease, diabetes and some cancers; help weight control; bulk up stools; prevent constipation; improve gut health.
- The recommended average intake for dietary fibre is 30g per day for adults.

Key Terminology

The Eatwell Guide: A healthy eating model showing the types and proportions of foods needed in the diet.

Hydration: The process of replacing water in the body.

Dietary fibre: A type of carbohydrate found in plant foods.

Composite/combination food: Food made with ingredients from more than one food group.





Dairy and alternatives

- Good sources of protein and vitamins.
- An important source of calcium, which helps to keep bones strong.
- Should go for lower fat and lower sugar products where possible.



Beans, pulses, fish, eggs, meat and other protein

- Sources of protein, vitamins and minerals.
- Recommendations include to aim for at least two portions of fish a week, one oily, and; people who eat more than 90g/day of red or processed meat, should cut down to no more than 70g/day.

Foods high fat, salt and sugar

- Includes products such as chocolate, cakes, biscuits, full-sugar soft drinks, butter and ice cream.
- Are high in fat, sugar and energy and are not needed in the diet.
- If included, should be had infrequently and in small amounts.

Topic: Nutrition

8 tips for healthier eating

These eight practical tips cover the basics of healthy eating and can help you make healthier choices.

- Base your meals on starchy carbohydrates.
- Eat lots of fruit and veg.
- Eat more fish including a portion of oily fish.
- Cut down on saturated fat and sugar.
- Eat less salt (max. 6g a day for adults).
- Get active and be a healthy weight.
- Don't get thirsty.
- Don't skip breakfast.

Oil and spreads

- Unsaturated fats are healthier fats that are usually from plant sources and in liquid form as oil, e.g. olive oil.
- Generally, people are eating too much saturated fat and need to reduce consumption.

Hydration

- Aim to drink 6-8 glasses of fluid every day.
- Water, lower fat milk and sugarfree drinks including tea and coffee all count.
- Fruit juice and smoothies also count but should be limited to no more than a combined total of 150ml per day.

Composite/combination food

Much of the food people eat is in the form of dishes or meals with more than one kind of food component in them. For example, pizzas, casseroles, spaghetti Bolognese and sandwiches are all made with ingredients from more than one food group. These are often called 'combination' or 'composite' foods.



Subject: Food Preparation and Nutrition Topic: Carbohydrates and Fibre

Energy

Energy is essential for life, and is required to fuel many different body processes, growth and activities. These include:

- keeping the heart beating;
- keeping the organs functioning;
- maintenance of body temperature;
- muscle contraction.

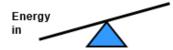


Our bodies get energy from **Macronutrients**. There are 3 macro nutrients: carbohydrates, fats and protein.

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

Free sugars include all sugars added to foods, plus sugars naturally present in honey, syrups and unsweetened fruit juice.

Fibre is a term used for plant-based carbohydrates that are not digested in the small intestine.

Food Sources of Carbohydrate

Sugars include a variety of different sugar molecules such as sucrose

Fibre

- Dietary fibre is a type of carbohydrate found in plant foods.
- Food examples include wholegrain cereals and cereal products; oats; beans; lentils; fruit; vegetables; nuts; and, seeds.

Dietary fibre helps to:

- · reduce the risk of heart disease, diabetes and some can
- help weight control;
- bulk up stools:
- prevent constipation;
- improve gut health.



Key Terminology

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

Macro nutrient: The nutrients we need in larger quantities that provide us with energy:

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

Dietary fibre: a type of carbohydrate found in plant foods

Constipation: A symptom linked to a lack of fibre in the diet. It happens when food cannot pass through your digestive system easily.

To increase your fibre intake you could:

- •Choose a higher-fibre breakfast cereal such as plain wholewheat biscuits (like Weetabix) or plain shredded whole grain (like Shredded wheat), or porridge as oats are also a good source of fibre.
- •Go for wholemeal or granary breads, or higher fibre white bread, and choose wholegrains like wholewheat pasta, bulgur wheat or brown rice.
- •Go for potatoes with their skins on, such as a baked potato or boiled new potatoes.
- ·Add pulses like beans, lentils or chickpeas to stews, curries and salads.
- •Include plenty of vegetables with meals, either as a side dish or added to sauces, stews or curries.
- •Have some fresh or dried fruit, or fruit canned in natural juice for dessert. For snacks, try fresh fruit, vegetable sticks, rye crackers, oatcakes and unsalted nuts or seeds.

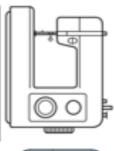
Dietary guidelines state that adults should eat 30g of fibre a day (Slightly less for children)

A lack of fibre in your diet can lead to **constipation**, irritable bowel syndrome (IBS), Heart disease and come cancers (bowel).

Type 3 and 4 on the Bristol stool chart means you have enough fibre in your diet.

product produced to show the look and function of a A plan or drawing

a decorative pattern



- the front of the pencil wrap In Year 7 we will DESIGN a Pattern for
- You will DESIGN a stencil to use as a repeat template

PATT 뜆

(pa·tn)

Pattern

ယှလ Motif Arrangement



Pattern

- again. where a pattern starts and then begins Repeat: Is the amount of space from
- Repeat, Random Pattern Repeat. Half Drop Pattern Repeat, Brick Pattern Types of pattern repeat: Block Repeat,



Block Repeat



Drop Pattern Repea



Brick Pattern Repeat



Block Repeat

Block

Repeat

Kepea



The grade of excellence

How good it looks How good something is

How well the pattern repeats

Quality



High Quality The very best

- Highest standard

Skilful

- Confident to undertake the task without support
- Task completed correctly

- An ability that comes from training
- applying colour. Drawing 2D shapes, pattern repeats Something you can get better at The skills in this project are:

When Designing a pattern:

- Extract 2D organic and geometric shapes
- ω 2 Consider how the pattern will the shape to be repeated Create a template of
- of product the pattern will repeat i.e. Block, ½ drop etc be used on Think about the type

- To look at
- To examine in detail interpret to explain and



a patten design of your own

You will ANALYSE his designs to create

designer MILTON GLASER

In Year 7 we will ANALYSE a the

- intense colours

Psychedelic

- wiggling lines
- be melting and oozing into each blending of objects that appear to

ANALYSE

(an+uh+lyz)

patterns lines, and kaleidoscopic Psychedelic design is an intense colours, free-flowing form that tends to have

Founder's Philosophy:

guaranteed. skills towards a worthy cause, even if success was not persuasion and could bring about change. He aspired to put his Milton Glaser, felt that as a designer he was in the business of

shop; his mother was a homemaker. the South Bronx. His father owned a dry-cleaning and tailoring were Hungarian Jewish immigrants. The family resided in Milton was born in The Bronx, New York City. His parents,

Inspiration

understand," Glaser said more you grow in your appreciation, the more you was one of those artists who, the longer you look at him, the Italian painter Giorgio Morandi, influenced Glaser. "Morandi

Impact

outlines, bright colours, and slightly exaggerated forms Pin Design Studio. Their style is characterized by strong Milton Glaser is credited for the creation of the famous Push

One of Glaser's most recognizable works is his 'I Love New York' logo. Its' aim was to increase tourism as New York was seen to be a dangerous place to visit.

Key Products:

It was one of Glaser's first posters. The poster shows the profile of Dylan's face with psychedelic, swirly hair, with Glaser's typefaces "Dylan" written at the bottom in Baby Teeth, one of In 1966, Glaser designed a poster for Bob Dylan's Greatest Hits.

Global Reach:

New York Georges Pompidou in Paris and the Museum of Modern Art in worldwide, including one-man shows at both the Centre and prints. His artwork has been featured in exhibits Throughout his career, Glaser has been a creator of posters

Relevance Today:

stop listening to our inner voices, and we no longer have to learn. "We are all born with genius," he said. "It's like access to this extraordinary ability to create. our fairy godmother. But what happens in life is that we Again and again, he stressed the importance of continuing

Milton Glaser Design

Milton often used vibrant and Bold Colours: contrasting colours.







patterns, including wavy and Use of Organic shapes and Organic Patterns: curved lines.





Practical activity To put together

h

In Year 7 we will be making a Pencil Wrap
You will use tools to make the parts

It will be made from Cotton

- Assemble
- SN Build
- Construct

Cotton

Natural

Grows on a

MAKING

(may-kuhng)



liquid

will soak up Absorbent; plant

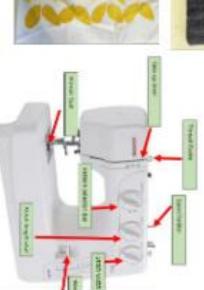
of different dyed lots Can be

colours



- distance apart means the sewn lines are the same Parallel: My pouches are parallel; this
- Seam allowance: The main parts have and won't come apart 1.5cm; this means they are strong been sewn using a seam allowance of







High Quality

- The very best
- Highest standard



Quality

The grade of excellence

- How good something is
- How good it looks
- How well it is made



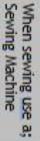
- Confident to undertake the task without support
- Task completed correctly



Skill

- An ability that comes from training
- Something you can get better at

sewing 90-degree corners, Hand sewing Measuring / Sewing in a straight line, The skills in this project are:





- Sharp needle
- through the machine Take-up lever pulls the thread
- ω Can use different types of stitch patterns
- 4 types of fabrics. Used to sew lots of different
- the position of the needle The balance wheel can move





Year 7 Knowledge Organiser – Romeo and Juliet by William Shakespeare

Romeo and Juliet

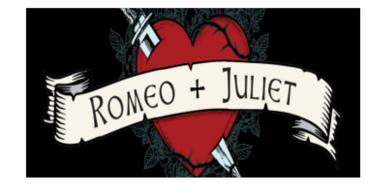
You will be exploring 'Romeo and Juliet' by William Shakespeare, examining how the hatred between the Montagues and the Capulets can be shown effectively on stage.

Tasks for this topic:

- · Explore the language of Shakespeare
- Use performance skills to represent hatred on stage
- Layer techniques you have used previously into your work to enhance the quality of your work.

PERFORMANCE SKILLS





Performance Techniques	
Technique	A tool used to enhance the quality
	of a performance piece
Movement to music	Movements that are created that
	work in time with a piece of music
Thought Tracking	A character's thoughts/feelings said
	out loud to an audience
Slow Motion	Moving slowly in order to highlight
	parts of a scene to an audience

Year 7 Knowledge Organiser – Titanic

Titanic

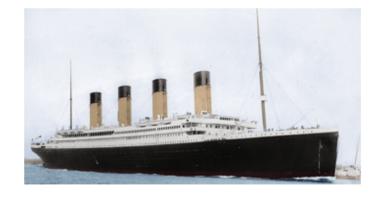
You will be using the skills and techniques you have learnt over the course of Year Seven to explore life aboard the Titanic and the impact the disaster had on society at the time.

Tasks for this topic:

- Use performance skills to explore the feelings and experiences of the passengers on board
- Explore the reasons people were on the Titanic and the dreams they had for the future through devising of work
- Use conscience ally to inform performance work.

PERFORMANCE SKILLS





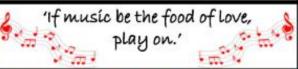
Performance Techniques	
Conscience ally	A character walks down an alleyway
	formed by members of the group as they
	use words to help shape characterisation.
Stereotype	A fixed and oversimplified image or idea
	of a particular type of person or thing.
Flashback	Showing the audience an important
	moment in a story that happened in the
	past
Devising	A group collaboration in response to a
	stimulus resulting in the creation of an
	original performance

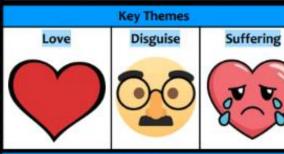
YEAR 7 SUMMER TERM KNOWLEDGE ORGANISER: HIDDEN TRUTHS THE TWELFTH NIGHT BY WILLIAM SHAKESPEARE

Plot Overview: Set in the island of Illyria, this Shakespearean comedy begins with the arrival of Viola in Illyria, who has been separated by her twin brother, Sebastian, in a shipwreck. The shipwrecked twins leads to mistaken identities, comedic misunderstandings and eventually a series of marriages.

eventu	ally a series of marriages.	
Act	Plot Summary	
Act 1	 Orsino, the Duke of Illyria, is upset because his love for Countess Olivia is not returned. Viola is shipwrecked on the shores of Illyria. She believes her twin brother, Sebastian, has drowned. Viola disguises herself as a man (Cesario) so that she can work for the Duke of Orsino. Olivia's uncle, Sir Toby Belch, Sir Andrew Aguecheek and Maria are partying together. Sir Toby believes that Sir Andrew should marry his niece, Olivia. Feste, Olivia's clown, tries to cheer Olivia up because she is still mourning her brother. Viola, now called Cesario, is sent by Duke Orsino to try to convince Olivia of his love. After meeting Olivia and leaving, Olivia admits she is attracted to Viola/Cesario and sends Malvolio, her servant, after him with a ring. 	Y W
Act 2	 Sebastian (Viola's twin) arrives in the town of Illyria after surviving the shipwreck. He meets Antonio, who gives Sebastian a purse of money to help him. Malvolio gives Viola/Cesario Olivia's ring. Viola/Cesario realises that Olivia has fallen in love with her. Sir Toby, Sir Andrew and Maria dislike Malvolio and decide to play a prank on him because he disapproves of their partying. They write a letter to trick him: it says that Olivia is in love with him. Viola/Cesario reveals that she is in love with Duke Orsino. Duke Orsino has no idea! 	
Act 3	 Viola/Cesario returns to Olivia's house. She begs Viola/Cesario not to give her any more love messages from Duke Orsino. Olivia reveals that she loves Viola/Cesario (she thinks Viola/Cesario is a man). Viola/Cesario tells Olivia that she cannot love her. Olivia is devastated. Malvolio, who has fallen for the trick letter, is declared mad by Olivia. She locks him in the dungeon. Sir Toby Belch plays a prank to get Sir Andrew to fight a duel to the death with Viola/Cesario and win Olivia's love. Sir Andrew and Viola/Cesario prepare to fight. Antonio enters and, believing that Viola/Cesario is Sebastian, volunteers to fight in place. Orsino's men then arrive, recognise Antonio (a wanted man) and arrest him. Antonio asks Viola/Cesario (still believing he is Sebastian) for his money back to release him from jail. Viola/Cesario is confused and refuses. Antonio feels betrayed. 	
Act 4	 Sir Toby and Sir Andrew meet Sebastian. Believing that he is Viola/Cesario, they challenge him to a duel. Sebastian agrees to fight. Olivia enters and stops the duel. She thinks he is Viola/Cesario. Olivia returns with a priest and suggests they marry. He agrees. Olivia and Sebastian marry. 	
Act 5	 Duke Orsino and Viola/Cesario approach Olivia's house. Antonio still feels betrayed by Viola/Cesario. Olivia speaks to Viola/Cesario (whom she believes she has just married) in front of Duke Orsino. Viola/Cesario is confused and Duke Orsino is angry. Sebastian enters and tells Olivia that he is sorry for having fought with Sir Toby and Sir Andrew. Everyone stands amazed, seeing Viola/Cesario and Sebastian. Olivia realizes that she has married Sebastian, not Viola/Cesario. Feste (the clown) reveals the trick played on Malvolio. Malvolio is released. 	

Orsino realises he loves Viola and tells her that as soon as she dresses as a woman, they shall marry.





Big Ideas

Devout Deep religious commitment.





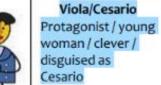
Conflict



YEAR 7 SUMMER TERM KNOWLEDGE ORGANISER: HIDDEN TRUTHS THE TWELFTH NIGHT BY WILLIAM SHAKESPEARE

Key Characters

Context - We must understand the influences of the world we live in when examining texts.



nobleman in Illyria / lovesick / egotistical

Duke Orsino Powerful

William Shakespeare

William Shakespeare was born in Stratford-upon-Avon in 1564. He is arguably the most famous playwright in the world. He wrote plays more than 400 years ago and served under two monarchs: Queen Elizabeth I and King James I. He also helped build the Globe Theatre in London.



Countess Olivia Noble Illyrian lady / wealthy / beautiful / in mourning / sworn off men for 7 vears

Sebastian Viola's twin / strong/ confused/

excellent at

combat



Queen Elizabeth I was the Queen of England, Ireland Her reign was called the Golden Age.



and Wales from 1558-1603. It was unusual to be ruled by a woman at that time.

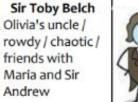
It was also unusual because she refused to marry. While she was queen, England won a famous sea



Viola (Cesario)



Malvolio Olivia's head servant / selfrighteous / efficient disapproves of fun





battle against the Spanish Armada. Part of her success was because of her authorisation of a group of privateers who were sent to target the Spanish on land and at sea (similar to pirates). Her reign saw the beginnings of Britain's colonising of the world (taking over lands they 'discovered').

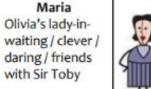


The Love Triangle



Sir Andrew Aguecheek

Desires Olivia to be his wife / believes he is witty / idiotic / friends with Sir Toby

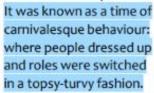




The Twelfth Night

The Twelfth Night is named after the Twelfth Night festival (the twelfth night after Christmas)-a

Christian festive period.





Actors

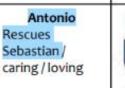
During the Shakespearean period, only males were allowed to perform as actors onstage. This meant all of the parts were performed by men or boys. Female characters were often played by young boys.





Feste

Olivia's clown / fool entertaining/wise





YEAR 7 AUTUMN TERM KNOWLEDGE ORGANISER: HIDDEN TRUTHS



	2 19	TECHN		L ACCURACY 8			ENTROTTIS		
'FOUR FOR MORE'-THE 4-PART SUCCESS STORY				Device / Feature				Ter	nses
Part SETTING •	Introduce your story by foc Describe the weather / envi objects / décor DEVICES: Personification / p prepositions / foreshadowing	using on the setting ronment / surroundings / pathetic fallacy / symbolism	n/	Simi Comparing somet to something else 'as', 'like'	hing (WFFT AS	Describi somethi stating i somethi	ing by	happ	at has already pened said / walked
CHARACTER	Describe your character(s) One or two characters – kee Craft their actions / behaviorand emotions DEVICES: Sensory language minimal dialogue	ep it minimal our to reflect their persona	ality	Symbo Objects, colours, sounds, places	***		Sensory language Five senses	PRES Something the	SENT nat is currently pening / say / walk
FLASHBACK	 Include a flashback to teach your character and / or their Begin this section with a trice. This memory should contrasituation DEVICES: Sensory language / similes / metaphors / symbol 	r world gger st your character's curren / juxtaposition / light imag	t	- Start of a sentence - Proper nouns: names or things - The pronoun 'I' - Months and days of the week	etters	- After a fr - Before a (like brack - After sub	Commas Ing three or more items in a list ronted adverbial and after a subordinate clause kets) bordinate and phrases that	Will have / will will	at will happen Il go / will say / walk
RETURN TO THE SCENE	Begin this section with a tri character back to their curr Offer a glimpse of change / story Return to something that you paragraph to create a cyclic DEVICES: Sensory language fallacy / symbolism / cyclica	ent world a subtle change to end yo ou described in your open cal structure !/personification/patheti	ing	Apostro To show that letters are missing in a word To show possession	phes	begin a se	Full Stops	Thele They'r	② The ₹r
		Word (Classes					14.2 88.4	(h)
Adjective Describes a noun or pronoun. Blue / young / powerfu	Adverb How, when or where something happens. Il Furiously / yesterday /	Preposition Where something is; the time, direction or cause of something.		Pronoun ds that replace nouns or noun phrases. She / he / they	Noun Person, place, th or state of b Manchester / c	eing.	Verb An action or state of being, Jump / write / be	Its 💆	lt's
11/1/1 2	here	On / under / above	4	* 👚			1	Which 3	Witch

Geography of the UK

Key Terms

Physical Map – Shows mountains, rivers and seas.

Political Map – shows the borders of the countries and also their capital/major cities.

Migration – this is when someone moves to a new place to live and work.

Multicultural – a society where many different cultures live together Refugee – A person seeking a safe place to live

Choropleth Map - A map that uses colours to show different information

Population Distribution – this is usually displayed on a map and shows where people live

Primary employment – jobs in mining, fishing and farming

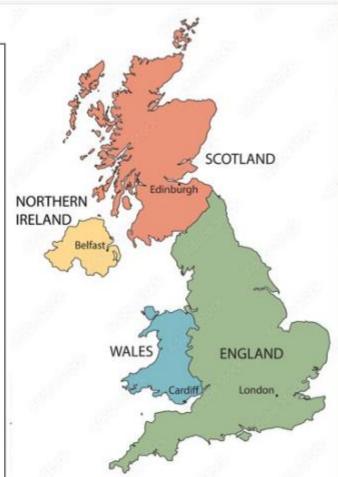
Secondary employment – manufacturing jobs where people make things

Tertiary employment – jobs that provide a service like teaching or shop assistant

Quaternary employment – hi-tech jobs like computing

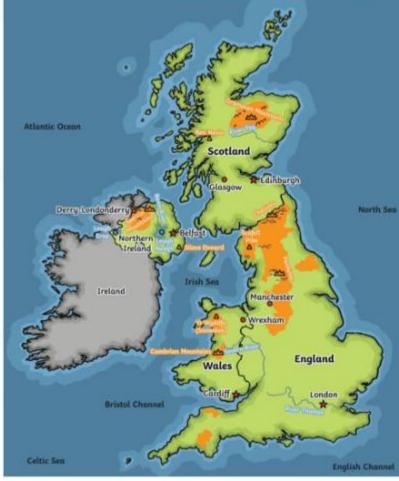
Demographics – this is data about the population of a place

Life expectancy – the average age people live to



A political map of the UK

There are 4 countries in the UK and each has a capital city as shown on the map above.



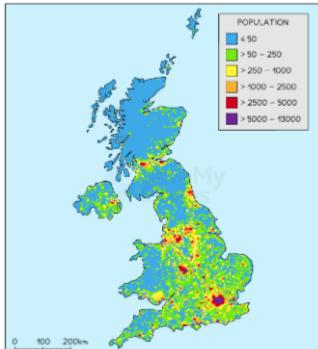
A physical map of the UK

The map shows the highest mountain in each country, the largest river and also where the main mountain ranges are located.

Who are the British?

The UK is a multicultural place with a long history of migration stretching back 1000s of years from the Romans, Vikings and Anglo-Saxons to more recently people from India, the Caribbean, Pakistan and also Europe from when we were a part of the EU.

Choropleth map showing population distribution



- The choropleth map uses colours to show where people live.
- The darker the colour the more people. As you can see the majority of people live in cities. The large dark colour to the south is London and in the North West you can clearly see there are many people in Manchester and Liverpool.
- In <u>addition</u> you can also see that very few people live in Northern Scotland. This is because there are lots of mountains and it is not an easy place to live.

The Lake District - An area of natural beauty created by glaciers



The Lake District is located in North West
England and is a National Park (its natural
beauty is protected by strict laws) that is famous
for its Lakes and Mountains.

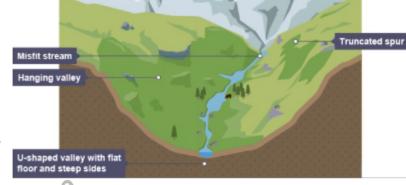
It is a very popular tourist destination for sightseeing, hiking, canoeing and sailing or mountaineering. It was created during the last ice age which began over 2 million years ago but only ended 11000 years ago.

A glacier is a slow moving mass of ice

How Glaciers shaped the Lake District

Because of the mountains and the Lake Districts location it has always received lots of rainfall which created rivers and V-shaped valleys (which learnt about in the rivers topic.

Glaciers eroded these valleys creating U-shaped valleys. The ice as it moved downhill scraped out the sides and bottom where there are now





UK Demographics

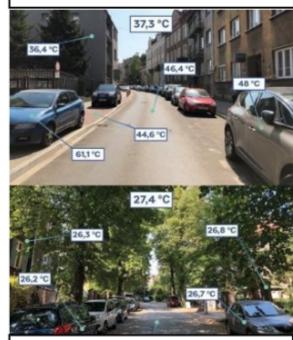
- . The average age of the population of the UK is 41. In Greater Manchester it is 39.
- The average life expectancy in the UK is 82 years in Manchester it is 81 years. There could be a number of reasons for this such as standard of healthcare, how difficult their job is or their quality of life.
- The average wage a person will earn in the UK is £37,000 but in London it is £47,000 and Manchester is £38,000. This could differ because of the different types of jobs people have in different parts of the country.

Microclimate Knowledge Organiser

Key Terms

Weather – the day-to-day conditions in the atmosphere. It is warm and sunny Climate – weather conditions over a long period of time. Spring in the UK is wet and mild.

Fieldwork – this is practical research outside of the classroom.



The two photos above were taken in the same city on the same day but the temperature in either place varies greatly. This is because in the second photo the trees are providing shade for the street so the ground is not being heated as much by the sun.

Rationale

In this project you will investigate the microclimate of our school. You will learn about the role of the environment in affecting the microclimate along with developing your geographical investigation skills. This will involve identifying an area of study, collecting, presenting and analysing data along with formulating conclusions based on your investigation.

A microclimate is the distinctive climate of a small area, such as a garden, park, valley or part of a city. The weather in a microclimate can differ from the climate of a surrounding area. The variables may be temperature, rainfall or wind.

Factors that can affect microclimates



 Aspect - The direction a place is facing. Places facing the south will be warmer as they receive more of the sun's energy. Those facing the north will cooler.



Shelter - Trees, hedges, walls and buildings all provide shelter from the wind. This can reduce wind speed or change direction of the wind.



Physical Features - Trees create shade. Bodies of water such as lakes and seas are cooler and sometimes create light winds. High places are cooler than low



 Surfaces - The colour of the ground effects the warming. Dark surfaces are warmer than light as they absorb the suns heat better.



 Buildings - Buildings give off heat that is stored during the day. Temperatures can be 2-3 degrees hotter around buildings. Buildings can decrease or increase wind speed. The process of investigation

Hypothesis – this is the question we are aiming to answer by collecting, presenting and analysing data.

Risk Assessment – we always need to first assess what risks we face during fieldwork. If we are staying on school grounds we do not need to worry about traffic but the weather and also how we dress may have a factor. For example if it is raining we should wear a coat to stay dry.

Methodology – This is how we will carry out our method. We design this before leaving the classroom. We need to think carefully about how many sites we will visit around school. What equipment we will need to measure differences in temperature, shade, wind speed and how we will record our data.

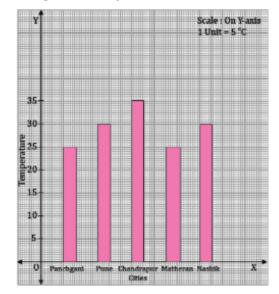
Data Presentation – This is how we present our data. This is a graph. Graphs make it easy to look for patterns in our data.

Data Analysis – We use our data to describe our results. We will look for specific patterns in places. If an area was in the shade did it have a lower temperature? Was the yard warmer than the field? Then we will explain why we think this was the case using the information on the previous page.

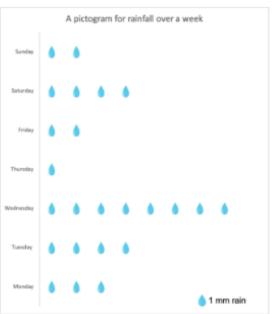
Conclusions – our conclusion is where we answer the hypothesis.

Evaluation – this is where we evaluate the study. Were there any factors that could mean our study was not accurate? How we collected the data for example?

Ways we can present our data



This is a bar chart. We can use bar charts to show the data from each site on one graph. We can only show Temperature or wind speed on a bar chart though.



This is a pictogram. It is similar to a bar chart but each symbol represents 1mm of rainfall. You count the symbols to show how much rainfall there was at each site. Like a bar chart this is a good way to compare data over each site. It must have a key to be accurate.

YEAR 7 KNOWLEDGE ORGANISER: Tudors and Stuarts (part 2)

Key things I need to know

- ✓ What was the impact of Henry's break with Rome?
- ✓ How did religion impact the reign of the Stuarts?
- ✓ What were the causes and impacts of the English Civil War?

Key Concepts	&
1. The Break with Rome	When the English Church broke away from the authority of the Catholic Church and the Pope.
2. Protestant	A Christian Church created by Henry VIII meaning that the Pope no longer controlled religion in England.
3. Treason	The crime of betraying your King or Queen.
4. Divine Right of Kings	A King could do as they wish because they were picked by God.
5.Civil War	A war between two groups of people in the same country.
6.Republic	A country without a King or Queen.

How did Henry's break with Rome impact the reign of his children?

Edward VI

Henry's son, Edward VI, went further than his father and made even more changes to the Church, making it more Protestant e.g. priests were allowed to marry, and the Book of Common Prayer was published.

Mary I

After Edward died, his sister Mary I became queen. She was a strong Catholic and reversed many of Edward's changes. She also bought over 300 Protestants at the stake.

Elizabeth I

Following Mary's death, her sister, Elizabeth I, became queen. She attempted to find a middle way to please both Catholics and Protestants. This was known as the Elizabethan religious settlement.

Why did Elizabeth have so many problems?

Marriage:



Mary Queen of Scots:

Elizabeth was the last of Henry VIII's children and so needed to marry and have children to ensure that the Tudor bloodline continued.

Finding a partner for Elizabeth however was difficult as she had to decide on religion and alliances.

In addition, how Elizabeth looked played a part in finding a partner. Mary Queen of Scots was born in 1542 and was Elizabeth i's cousin. Many Catholics saw Mary as the rightful Queen of England.

Mary became Queen of Scotland when she was a baby and was raised a catholic. The Catholics in England a wanted things to change whereas protestants wanted it to continue.

After Mary's husband was killed in suspicious circumstances Mary fled to England for safety, but Elizabeth did not trust her and so had her locked away.

In 1586, a plot to assassinate Queen Elizabeth and replace her with Mary was created; the Babington Plot. Mary would send a letter that seemed to agree with the plot that was found by Elizabeth's spy Sir Francis Walsingham. After it was deemed that Mary was too much of a threat and of committing treason, she was beheaded in 1587.

Spanish Armada:

The Spanish Armada set sail for several reasons:

- Executing Mary Queen of Scots
- Elizabeth rejected the King of Spain in marriage
- English explorer Sir Francis Drake destroyed Spanish ships

The Spanish Armada failed for several reasons:

- The Spanish had large and slower ships which were hard to manoeuvre
- The Spanish used a crescent formation which made them an easy target
- A storm hit the Spanish, causing them to sail around Scotland.
- The English had cannons that they could fire faster.

Stuart England 1603 – James 1629 – Charles 1649 - Charles I 1660 - Parliament 1625 – James August 1642 -5th November becomes King dies, and his son rules without asks Charles' son to was executed and The English Civil 1605 -Charles becomes Parliament for 11 England became James I of return as King Gunpowder Plot War began England King Charles I a republic Charles II years

The Gunpowder Plot

Causes:

At first James I had been soft on the Catholics as he wanted to keep them happy.

However, the Protestants didn't like it, so he had to become harsher on the Catholics - he announced a plan to outlaw (ban) Catholicism

Events:

- The plotters put 36 barrels of Gunpowder in a cellar they had rented, under the Houses of Parliament.
- A suspicious letter was sent to Lord Monteagle who took this to the King's Spy Master, Robert Cecil. The King worked out what the message meant and the cellars were searched 10 days later.
- Guy Fawkes was discovered, tortured and confessed.

Impacts:

- People thought that the King was clever for working out what was going to happen.
- It made the Catholics look like a serious threat which gave King James an excuse to be harsher on the Catholics, including banning them from voting.
- Such a public, and horrible punishment, scared the Catholics and meant they didn't actively try to overthrow the monarchy again.
- The country became more firmly Protestant

Were the plotters framed?

Despite Guy Fawkes confessing to the crime, there is debate around if those accused actually planned this attack or if it was someone else.

- The cellar where the gunpowder was stored was rented to the plotters by a man called John Whynniard who was friend of the King's Spy Master. Whynniard was found dead on the morning of the 5th November.
- All supplies of gunpowder were kept secure in the Tower of London, however the records for 1604 were missing.
- After Robert Cecil was told about the mysterious letter, he waited 10 days before searching the cellar.
- Robert Cecil was allegedly also upset with how James I was treating the Catholics softly.
- The signature of Guy Fawkes was completely different from when he was arrested compared to a few days later.
- The house where the "plotters" were found was surrounded on the 7th November 1605, just two days after Guy Fawkes was captured. However, according to Government reports it took two days for Fawkes to give his real name and a further six days to reveal the others.

Key Concepts	Q 1
1. Cavalier	Nickname for a soldier who fought for the king during the civil war
2. Roundhead	Nickname for a soldier who fought for Parliament during the civil war
3. Puritan	A strict Protestant

Causes of the English Civil War (1642)

- Charles I married a Catholic and allowed Catholic advisors at court. He was
 accused of being a secret Catholic. In 1637 three Puritans (extreme
 Protestants) were arrested for printing pamphlets criticising changes to the
 Church of England, as they thought they made it more Catholic. They were
 punished in public.
- Charles refused to share power with Parliament, he ruled on his own for 11 years. He believed in the Divine Right of Kings.
- Since 1626 Charles has collected a tax to pay for the navy, because England was at war with Spain. This tax was called 'Ship Money'.
- In 1641 a rebellion breaks out in Ireland over religion and Charles asked
 Parliament for money. Some MPs refused to pay for an army that Charles was
 going to lead. They suggest that Parliament should be in change of the army
 instead, but Charles accused them of treason and demanded their arrest.

Soldiers of the English Civil War

The English Civil War divided friends and families between two sides; the Cavaliers who fought for parliament and the Roundheads who fought for the king.

Cavaliers - Musketeers



Roundheads - Pikemen

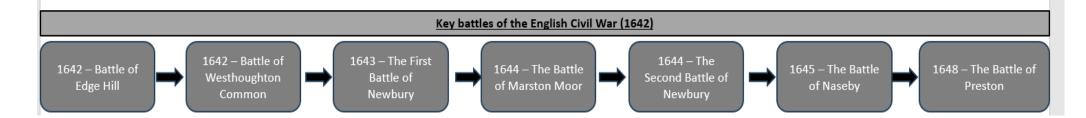


Musketeers did not wear armour, which meant they could move quickly. The gun that most of these soldiers used was called a matchlock. A good and well-trained musketeer could fire 3 rounds a minute – but if his gunpowder got wet, he wouldn't be able to shoot at all. Musketeers also had a sword for close hand-to-hand combat.

Wore a set of armour and a strong thick coat, made of horse hide, called a 'buff coat'. The pike that the men carried was approximately 18 feet long and made of a hard wood. The top 4 feet of the pike was wooden with metal around it, with a sharp spiked spearhead at the top. Pikes were very heavy; only the strongest men could use them properly.

Cavalry - both

Both the Cavaliers and the Roundheads had cavalry (soldiers on horses), but the cost of keeping hundreds of horses was very high. The cavalry soldiers were armed with a heavy sword and sometimes two pistols. They wore back and chest plate armour with a 'buff coat' (a thick coat usually made of horse hide) underneath that.



Charles' execution

Charles I was defeated by the leader of the Parliamentarian army, Oliver Cromwell. Charles was arrested and put on trial for high treason due to how he angered parliament before the war and also being blamed for starting it.

Cromwell had 59 signatures on Charles' death warrant but there were arguments for and against Charles' execution.

- ✓ Killing Charles will bring peace to England.
- ✓ Cromwell's victories proved that God was actually on his side, not Charles'.
- ✓ Charles has killed and been to war against the people he was supposed to protect.
- England would be lost without a King.
- A lot of people in Parliament wanted Charles back in power.
- Charles was chosen by God and mortals do not have the power to challenge that.

Oliver Cromwell; hero or villain?

 30^{th} January 1649 King Charles I was executed, and England became a Republic for the next 11 years. Oliver

Cromwell became Lord Protector and led England.

Oliver Cromwell made lots of changes to England;

- He still made decisions without Parliament at times but he gave Parliament much more power than before, and the way it was elected was fairer.
- Even though he was a Puritan, Cromwell was tolerant of other religions. He allowed Jews to come back into the country. He wasn't accepting of Catholics though, especially in Ireland.
- He created strict rules, such as banning football, however, he got rid of censorship (stopping some ideas being spread) and lots of people, including women, were now able to publish their ideas.

Oliver Cromwell died in 1958 and was replaced by Richard Cromwell. However, people were concerned about Richard's lack of experience so Charles I's son, Charles II was crowned King.

The Great Plague 1665

The Great Plague spread across England between June & November of 1665 and peaked in September with 7,000 deaths recorded in one week. In total, over 100,000 died in London – nearly 20% of the population but at the time nobody knew the true cause of the disease, so it was very difficult to treat.

There were two main types of plague;

- 1. Bubonic plague was spread when people were bitten by fleas, which lived on rats and 1 in 3 people would die if they caught it. This plague caused large swellings, known as buboes, in the armpit, groin and neck.
- 2. Pneumonic plague was spread from person to person through air droplets. In the period before antibiotics were developed, this had a near 100% death rate.

Believed causes:

- · Punishment sent by God.
- · The alignment of the planets.
- Bad smelling air from rubbish in the streets.
- · Cats and dogs on the streets.

<u>Treatments (when someone had already</u> caught the plague):

- · Carrying lucky charms and amulets.
- Praying.
- Transference strapping a live chicken to buboes so the disease would transfer to the chicken.
- · Herbal remedies.

Preventions (how people avoided catching it):

- 40,000 dogs and 200,000 cats killed.
- Victims locked in their houses for 40 days and a red 'X' painted on their door.
- Smoking tobacco and burning sweet smelling herbs in the streets to cure the bad smells.
- Plague Doctors wore bird-like beaks with herbs in them along with a waxed cloak.
- Public gatherings were banned and streets were cleaned

Actions of the Government:

- The Mayor of London published detailed orders which most people followed. He also appointed 'searchers' and 'watchmen'' to monitor the spread of the disease.
- Charles II demanded people follow the preventions such as the killing of animals, quarantine, cleaning of streets and burning sweet smelling herbs.

Sequences



Component Knowledge

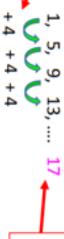
- Understand and describe linear sequences.
- Understand and describe geometric sequences
- Understand and describe pictorial sequences
- Understand and describe special sequences

Key Vocabulary

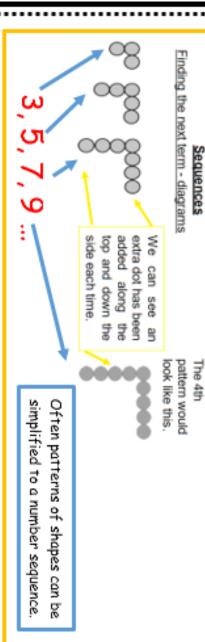
Linear	The difference between terms increases or decreases by the same value each
	time.
Geometric	A sequence where each term is found by multiplying the previous one by a
	fixed non-zero number.
Difference	The gap between two terms.
Sequence	Items or numbers put in a pre-decided order
Term	A single number or variable.

<u>Linear Sequences—can also be known as arithmetic sequences. Where each term</u> is added or subtracted by the same amount each time (arithmetic operation).

The rule is add 4
because the
difference between
each number is 4.



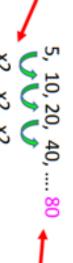
17 is the next number because 13 + 4 = 17.



value each time Geometric Sequences- where each term is multiplied or divided by the same

Example:

The rule is multiply by 2 because the numbers are doubling.



number because

40 × 2 =

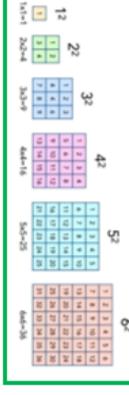
8

80 is the next

Special Sequences

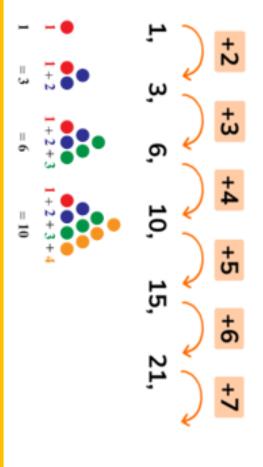
itself. They can be represented by a square Square Number Sequences-each term is the result of each position multiplied by

Example: 1, 4, 9, 16, 25, 36 ...



value. to find the difference between the previous two terms and add one more than this represented as a triangle. To find the next triangular number in a sequence, we need <u>Triangular Number Sequences-</u>Triangular numbers are numbers that can be

Example:



Fibonacci Sequences-The next term is found by adding up the two terms before it. This sequence is commonly found in spirals in nature

based on the Fibonacci rule of adding the previous 2 terms **Example:** The Fibonacci sequence is below. Other Fibonacci type sequences are

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, ... 0, (0+1), (1+1),(1+2), (2+3), (3+5), ...



Online clips

M381, M241, M166, M981

inding and using



the nth term

Component Knowledge

- Find the common difference between terms in a sequence
- nth term Using the common difference to find the
- Using the nth term to find terms in a sequence

Key Vocabulary

variables multiplied together.	Term In algebra, a t	Nth Term A formula tha	Pattern Objects or nu	time.	Linear A sequence w	Sequence A list of numb
variables multiplied together.	In algebra, a term is either a single number or variable, or numbers and	A formula that enables us to find any term in a sequence	Objects or numbers that are arranged following a rule or rules		A sequence where each term is added, or subtracted, by the same amount each	A list of numbers or objects in a special order

How to find common differences & the nth term of a

Decreasing sequences – follow the same

steps but your nth term will be negative

linear sequence

sequence. use the nth term to then calculate any term in the The nth term is the general rule for a sequence. We can A difference of +3

difference Find the Here is a sequence: 5, 8, 5, 8, 11, 14,

table.

<u>ა</u>

ġ

-9 -12

-3n -2

means we need to A difference of -3

look at the -3 times

numhers between the

sequence. you get from the the original times table to Calculate how

The nth term is 3n + 2. 5, 8, 11, 14, ... 3, 6, 9, 12, ... +2

Using the nth term to create a sequence

= 3n times table look at the +3 means we need to We can also

 $t_n = 3n + 2$ write this as

> original sequence table to the get from the times Calculate how you

Using the nth term to find if a number is in a

sequence

Is the number 14 in the sequence 4n + 2?

when a =

its the position in the sequence. The first term in the sequence 1, the second term in the sequence is when n=2, and so on

R represe

Write the first five terms of the sequence 3n + 4.

To find the terms, substitute It for the position number:

when n

 $= 1,3n+4=3\times1+4=3+$

4 = 7

 $4 = 3 \times 2 + 4$

10

$$4n+2$$
 = 14 If you get a decimal here, then -2 the term isn't in $+4$ $+4$ $+4$ $+4$ $+4$ $yes, 14$ is the 3rd term in the sequence.

Online clips

The first five terms of the sequence: 3n + 4 are 7, 10, 13, 16, 19, ...

when $n = 5, 3n + 4 = 3 \times 5$

+4 = 15 + 4 = 194 = 12 + 4 = 16

4.3n +

= 3, 3n +

 $4 = 3 \times 3 + 4 = 9 + 4 = 13$

M381, M241, M166, M991



Component Knowledge

- To be able to write and understand ratio notation
- To be able to simplify ratios
- To be able to simplify to unit ratios
- To be able to share an amount in a ratio

Key Vocabulary

Ratio	Relationship between two or more numbers.
Part	This is the numeric value '1' of, would be equivalent to
Simplify	Divide all parts of a ratio by the same number.
Equivalent	Equal in value

Ratio Notation









The ratio of apples to oranges is 3:2

Apples are mentioned first that

The ratio of oranges to apples is 2:3

Oranges are mentioned first that is why the 2 comes before the 3

To write this as a fraction

is why the 3 comes before the 2

Apples to Oranges

3:2

Simplifying a ratio

Simplify

12 and 20 a factor of both have

both need to be numbers Therefore

divided by 4

above Using the highest common factor gets the final answer quicker but you could have divided by 2 and then 2 again for the example

Simplify

by 20 here to simplify in have divided you could Alternatively,

Writing ratios as 1:n or n:1

ratio in total There are 5 parts

ಕ

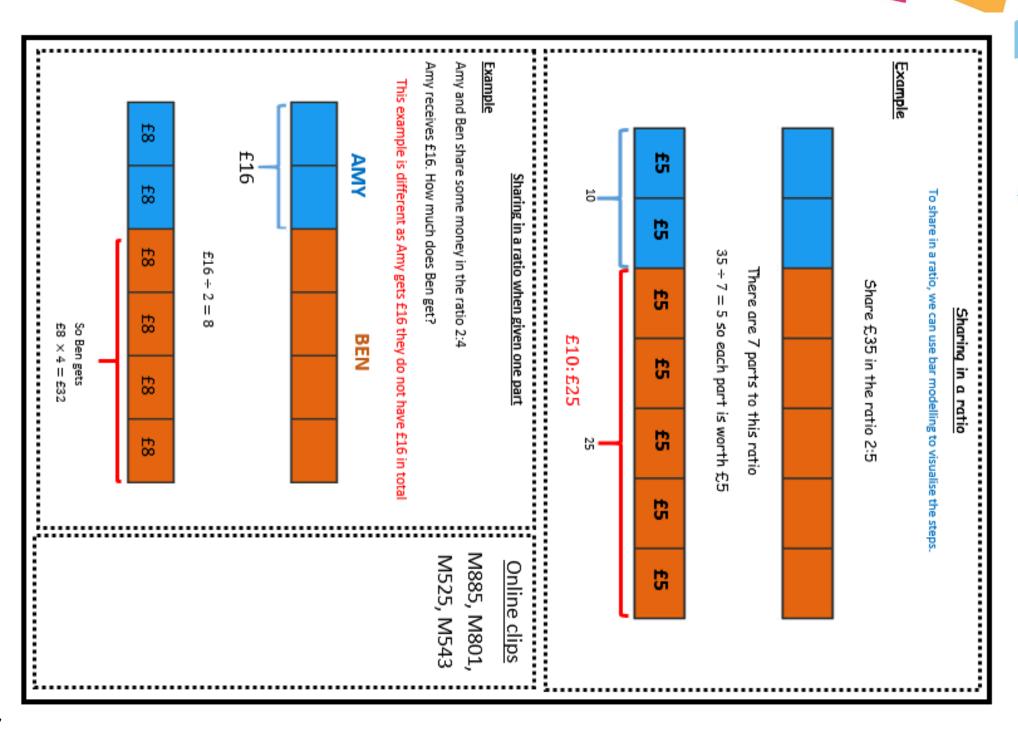
This means that the ratio needs to be simplified in a specific way. You may end up with fractions or decimals as part of your answer

Write 2: 5 in the form 1.; n

This means the left number needs to be 1

Write 2: 5 in the form ي;1

This means the right numbers needs to be 1



Averages



Component Knowledge

- To understand and calculate the mode from a list.
- To understand and calculate the median from a list
- To understand and calculate the mean from a list
- To calculate the range and understand it is not an

Key Vocabulary

Range	Mean	Median		Mode	Average		Data set
A value to show spread out a data set is. It can be used to describe how representative of the whole data set the average used is. IT IS NOT AN AVERAGE.	A measure of the size of the data when shared out equally. It is a type of average.	The middle value of a data set, when ordered. It is a type of average.	more mode.	The most frequent value in a data set. It is a type of average. Modal is another word used	Is a value (or values) that is used to represent a whole data set	question or information for a set objective.	Collection of values that share a common relationship. This could be answers to a set

Averages

we can interpret large data sets and also compare data sets more easily We use averages to summarise a whole data set in a single value/few values. We do this so

set of data <u>Mode</u>- the most frequent value/ few values in a data set. There can also be no mode in a

Ex 1, find the mode:

pink blue redgreen blue blue green E. blue blue yellow blue Blue is the mode

Ex 2, find the mode:

9, 4, 3, 6, 9, 5, 2, 1, 8, 7

To make it easier, we can re-write these values in ascending(increasing) order

'n 3, 4, 5, 6, 7, 8, 9, 9, We can now see clearly 9 is the mode

Ex 3, find the mode:

9, 4, 3, 6, 9, 5, 2, 1, 8, 7, 3

Re-written 1, 2, 3, 3, 4 5, 6, 7, œ œ, 9 We can see 3 and 9 are the modal values

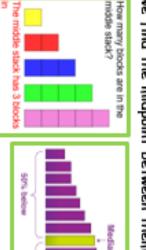
** We usually only have 1, 2 or 3 modal values**

Ex 4, find the mode:

1, 3, 6, 9, 5, 2, 1, 8, 7

Re-written 00 We can see there are NO modal values

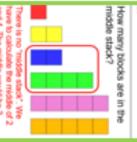
Medianwe find the midpoint between them the middle value 5 data set, when in order. 댝 there e e 2 middle values



Median = Find the median of: 1, 3, 8, 6, * 00

Œ.

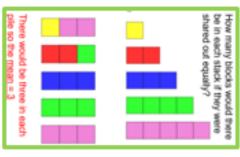
Median is the midpoint of 4 and 5 = 4.5Find the median of: 1/2 <u>م</u> 4 Ġ ٥ òŋ Ø

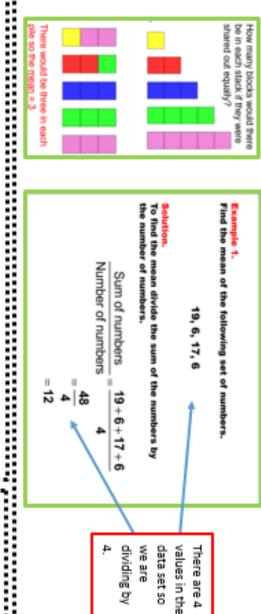


8 ģ 'n 8 9 8 넒 4 9 Ç ψ 43 à 6 ಜ မ 6 8 8

Find the median of the following set of numbers

between the number of values do this by adding all the values Mean-The mean is the size of each part when a quantity is shared equally. in the data set together and then dividing it equally We can





M940, M328 M841, M934, Online Clips

useful to order the data when finding the range. the range, Range-쿯 the more consistent the data range shows how spread out the data Ņ The smaller

E.g. Find the range of the following numbers

Range =43--22 = 16



<u>Pictograms</u>

Component Knowledge

- To be able to draw a pictogram given a frequency table
- To be able to interpret a pictogram.

Key Vocabulary

Pictogram	A type of chart to represent non – numerical or discrete data
Key	Shows what value each picture represents.
Discrete	Data that can only take certain fixed values – it usually is values that can be
	counted. (e.g. whole numbers, shoe sizes, money)
Frequency	The number of times the item occurs in an experiment.

A <u>pictogram</u> uses pictures or icons to represent the total frequency of each category.

mode (most common). In a pictogram the icons used must be the same size and equally spaced. This makes it very easy to spot the

might be used to indicate some values A key is included to indicate what value each icon represents. Fractions of the icon, usually a half or a quarter,

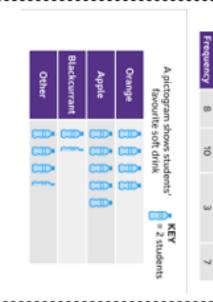
A pictogram can be used to make comparisons between the categories in a set of data

Drawing

- Look at the largest frequency in your table
- Decide on an appropriate icon and what value it will represent, goes twos or fours work best.
- Draw a table with two columns, one for category and one for the icons.
- Label the categories in the table.
- Draw the correct number of images for each frequency.
- Draw the correct number of images for each frequency.
- Check you have included a key and give your pictogram a title.

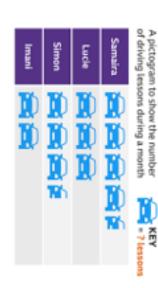
Apple Orange

Blackcurrant Other



Interpreting

The pictogram shows the number of driving lessons some students had during a month. If Simon had 7 lessons, how many lessons did Samaira, have?



Simon has three and a half Icons. This represents seven lessons $(7 \div 3.5 = 2)$

Each icon represents two lessons. Samira has four and a half icons. Samira = $4.5 \times 2 = 9$ lessons.

Online clip

M644



Component Knowledge

- Understand how to complete a tally/frequency table
- of a bar chart Understand the important characteristics
- read information from it Understand how to draw a bar chart and

Key Vocabulary

Height Measure i Width Measure i Axis Horizonta Axes Plural of a Discrete Data that Continuous Data that	Tally chart Frequency	Table used to track the frequency of a variable Measures how often things are repeated
	ight	Measure from the base to the top of an object
	Width	Measure of how wide an object is, usually horizontally
	Axis	Horizontal or vertical scale on a graph or chart
	Axes	Plural of axis, i.e. a set of axes (pronounced 'exect)
	Discrete	Data that can only take certain values, e.g. shoe size
	Continuous	Data that are not fixed and can have an infinite set of values

Completing a Tally Chart

Red, blue, red, green, red, purple, red, green, red, Complete a tally chart for the most popular colour of car:

purple, green, blue, red, green, blue, red, red, red

Purple	Green	Blue	Red	Colour
Ш	IIII	Ш	Ⅲ ₩	Tally
2	4	3	6	Frequency

in the 'tally' column. For each colour, draw a vertical line

For the 5th number, you put a slash through the bundle of 4 vertical lines

value. Add the tally to give a numerical This is called the frequency

Key facts Q. Tips

Bar charts represent discrete data (i.e. data you can

The bars are **equal width** with **equal gaps** between them. The height of each bar represents the frequency, which is shown on the y-axis

EXAM TIP

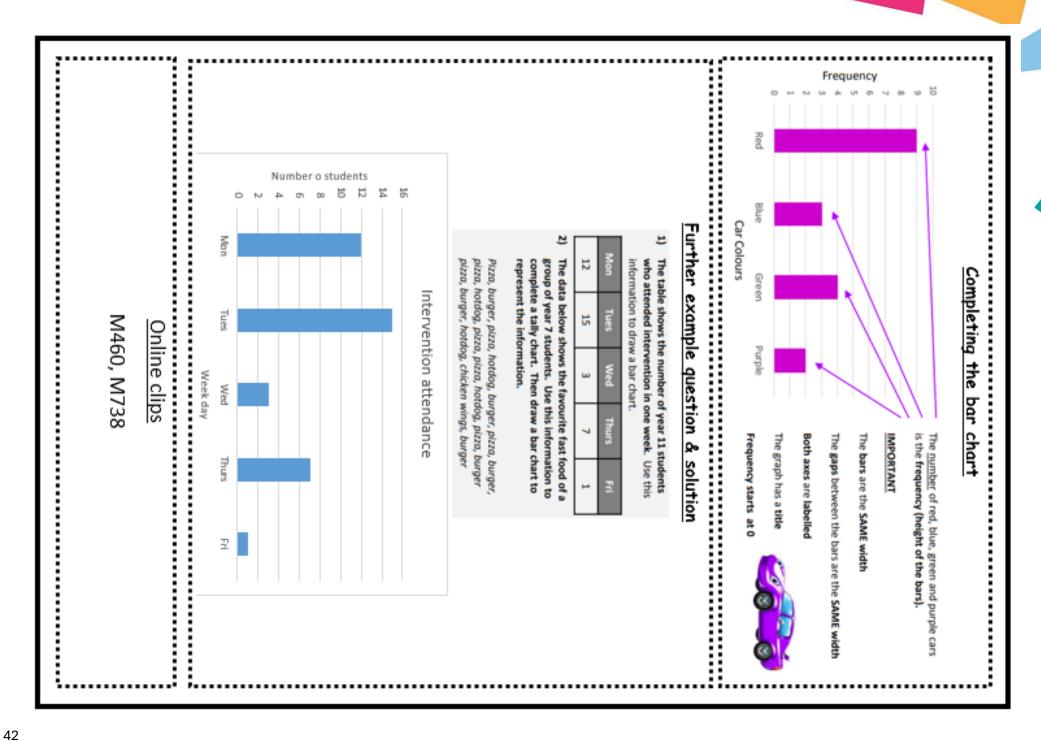
Don't forget to label the graph

Example Question

drive. Below is the data. Mrs Klingon asks 21 of her colleagues what model of car they

Nissan	Kia	WV	Ford	Car Model
1	11	3	6	Frequency

Draw a bar chart to represent this.



Line Graphs



Component Knowledge

- Know how to plot a line graph
- Describe trends in data using a line graph

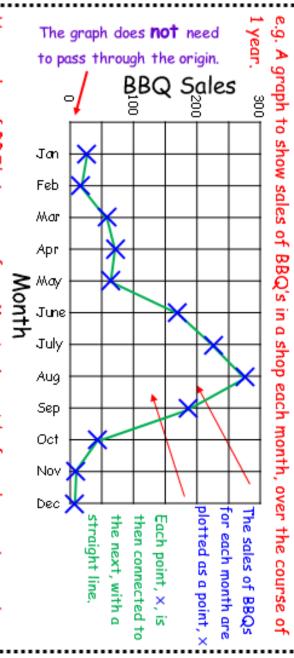
Key Vocabulary

Trend	Series
A pattern in a data series	A set of sequential pieces of data

Line Graphs (Time Series Graphs):

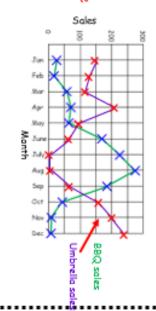
Are commonly used to show how a variable changes over **time**

The graph is used to show trends in data.



Here sales of BBQ's increase from May to August before decreasing again.

A second data series can be plotted on the same axes to allow comparison. Here the highest months for sales of BBQs are July and August, these are the lowest months for sales of umbrellas.



Online clips

M140, M183

What you do on your computer / what you do on your mobile

Qu'est-ce que tu fais avec ton ordinateur?

- What do you do on your computer?

Qu'est-ce que tu fais avec ton portable?

- What do you do on your mobile?

Je joue aux jeux vidéo – I play video games

Je partage des photos sur (des réseaux sociaux)

- I share photos on (social media)

Je regarde des vidéos sur (ma tablette)

- I watch videos on (my tablet)

Je télécharge des chansons sur (mon ordinateur portable)

- I download music on (my laptop)

Je parle avec mes ami(e)s - I speak with my friends

J'envoie des e-mails sur (mon portable)

- I send emails on (my phone)



Key ideas
Online habits
Sports and hobbies

Year 7 Topic 4: Mes Passetemps – My Hobbies

Saying if you are sporty

Tu es sportif (m) / sportive (f)? – Are you sporty?

Je suis sportif (m) / sportive (f) – I am sporty

Je ne suis pas sportif (m) / sportive (f)

- I am not sporty

Your favourite sportsperson

Mon sportif préféré est...

– My favourite sportsman is... Ma sportive préférée est...

- My favourite sportswoman is...

What you like to do

Qu'est-ce que tu aimes faire? - What do you like to do?

J'aime regarder la télé – I like to watch TV

J'aime écouter de la musique – I like to listen to music

J'aime faire les magasins - I like to do shopping

J'aime faire du sport — I like to do sport

J'aime jouer sur (ma console de jeux) – I like to play on (my games console)

J'aime téléphoner à mes copains (m) / copines (f) – I like to phone my mates



Sports

Qu'est-ce que tu fais (quand il fait beau)?

- What do you do (when it is nice weather)?

En été – in summer

En hiver - in winter

Quand il fait beau / mauvais- When it's good / bad weather

Quand il fait chaud / froid- When it's hot / cold

Quand il pleut /neige – When it rains / pleut

Quand il y a du soleil / vent - When it is sunny / windy

je fais du parkour – I do parkour

je fais du vélo - I do cycling

je fais de la danse – I do dance

je fais de la natation - I do swimming

je fais de l'équitation – I do horse-riding

je fais une balade à cheval I do horse-riding

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

Quels sports joues-tu? – What sports do you play?

Je joue au foot – I play football

Je joue au basket – I play basketball

Je joue au tennis – I play tennis

Je joue au handball – I play handball

Je joue aux boules / à la pétanque- I play boules / pétanque

Je joue aux cartes – I play cards

How often you do or play something

J'y joue + frequency expression – I play it + frequency expression

J'en fais + frequency expression – I do it + frequency expression

What you used to do or play

Avant / Dans le passé je jouais... – Before / In the past I used to play... Avant / Dans le passé je faisais... – Before / In the past I used to

Definite Article - The

le - masculine

la – feminine

les – plural

l' – starts with a vowel sound

Jouer à + a sport

à + le = au (masc.)

 $\dot{a} + la = \dot{a} la (fem.)$

à + les = aux (plural)

à + l' = à l'

(starts with a vowel sound)

Faire de + a sport

de + le = du (masc.)

de + la = de la (fem.)

de + les = des (plural)

de + l' = de l'

(starts with a vowel sound)

Year 7 Topic 4: Transferable Knowledge

Sequencers

D'abord - First of all

Puis - Then

Ensuite - Next

Finalement - Finally

Time Expressions

d'habitude – usually

quelquefois - sometimes

souvent - often

tous les jours - every day

tous les soirs - every evening

tous le temps - all the time

de temps en temps

- from time to time

une fois par semaine

- once a week

deux fois par semaine

– twice a week

Le soir... - In the evenings...



Opinions

Qu'est-ce que tu aimes faire?

- What do you like to do?

Qu'est-ce que tu n'aimes pas faire?

- What do you not like to do?

Tu aimes...?/ Est-ce que tu aimes...?

- Do you like...?

J'aime... - I like...

J'adore... - I love...

Je préfère... - I prefer...

Je n'aime pas... - I don't like...

Je déteste... - I hate...

pour moi - for me

c'est... - it is...

Connectives

mais - but

aussi - also

parce que - because

car - because

puisque – since



Intensifiers

peu – little

trop - too

extremely

tellement - so

et – and

cependant – however

très – very

assez – quite

vraiment – truly

réellement - really

un peu – a bit

extrêmement -



Key verbs in the present tense

Tu fais - You do (singular / informal)

Vous faites – You do (plural/polite)

Il fait / Elle fait / On fait

Nous faisons – We do

- He does / She does / We do

Ils font / Elles font – They do

Jouer - to play

Je joue – I play

Faire – to do

Je fais - I do

Tu joues - You play (singular / informal)

Il joue / Elle joue / On joue

- He plays / She plays / We play

Nous jouons – We play

Vous jouez – You play (plural / polite)

Ils jouent / Elles jouent – They play

Adjectives

bien - good

cool - cool

génial – great

ennuveux - boring

nul – rubbish

important - important

essentiel - essential



Year 7 Topic 5: Les Animaux – Animals

What pet I have

As-tu un animal? - Do you have a pet?

J'ai un chat - I have a cat

J'ai un chien - I have a dog

J'ai un lapin — I have a rabbit

J'ai un cheval - I have a horse

J'ai un poisson - I have a fish

J'ai un oiseau – I have a bird

J'ai une souris - I have a mouse

J'ai une araignée – I have a spider

Je n'ai pas d'animal – I don't have a pet

Name of my pet(s)

qui s'appelle... – who is called... qui s'appellent... – who are called...

My past pet

Quand j'étais petit / petite – When I was little j'avais... – I used to have... II / Elle était... – It was Ils / Elles étaient... – They were

My future pet

Dans le futur / À l'avenir – In the future je voudrais avoir... – I would like to have... Il / Elle serait... – It would be... Ils / Elles seraient... – They would be...

Colours

violet / violette / violets / violettes - purple
rouge / rouges - red
bleu / bleue / bleus / bleues - blue
noir / noire / noirs / noires - black
gris / grise / gris / grises - grey
vert / verte / verts / vertes - green
jaune / jaunes - yellow
blanc / blanche / blancs / blanches - white
rose / roses - pink
orange - orange
marron - brown

Describing animals

fort / forte / forts / fortes – strong dangereux / dangereuse / dangereux / dangereuses – dangerous ennuyeux / ennuyeuse / ennuyeux / ennuyeuses – boring grand / grande / grands / grandes – big petit / petite / petits / petites – small lourd / lourde / lourds / lourdes – heavy



Key ideas

Pets

My favourite animal

My favourite animal

Mon animal préféré, c'est...

- My favourite animal is...

le chat – the cat

le chien – the dog

le lapin – the rabbit

le cheval – the horse

le poisson – the fish

l'oiseau - the bird

la souris - the mouse

l'araignée – the spider



<u>Adjectives</u>

In French, adjectives usually go after the noun they are describing and agree with the noun (masculine, feminine, singular, plural). For example:

Un chien noir – A black dog Une araignée *noire* – A *black* spider Deux chiens *noirs* – Two *black* dogs Deux araignées *noires* – Two *black* spiders

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

Indefinite Article - A / An / Some

Un - a / an (masculine)

Une – a / an (feminine)

Des - some (plural)

Definite Article - The

le - masculine

la - feminine

les - plural

I' - starts with a vowel sound



Year 7 Topic 5: Transferable Knowledge



Possessive Adjectives

My

Mon - masculine

Ma – feminine

Mes - plural

<u>Your</u>

Ton - masculine

Ta – feminine

Tes – plural

Opinions

J'aime beaucoup... – I really like...
J'adore... – I love...
Je préfère... – I prefer...
Je n'aime pas... – I don't like...
Je déteste... – I hate...
pour moi – for me
c'est... – it is...

Connectives

et – and
mais – but
aussi – also
parce que – because
car – because
puisque – since
cependant – however

Intensifiers

très – very
assez – quite
vraiment – truly
réellement – really
un peu – a bit
peu – little
trop – too
extrêmement – extremely
tellement – so

Être – to be

Je suis – I am

Tu es - You are

Il est/ Elle est/ On est - He is/ She is / We are

Nous sommes - We are

Vous êtes - You are (plural/polite)

Ils sont / Elles sont - They are

Avoir - to have

J'ai - I have

Tu as - You have

Il a/ Elle a/ On a – He has/ She has / We have

Nous avons - We have

Vous avez - You have (plural/ polite)

Ils ont / Elles ont - They have

Key verbs in the present tense

S'appeler – to be called

Je m'appelle - I am called

Tu t'appelles - You are called

Il s'appelle / Elle s'appelle / On s'appelle – He is called / She is called / We are called

Nous nous appelons - We are called

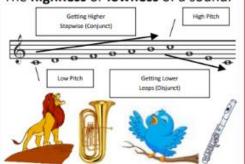
Vous vous appelez – You are called (plural/ polite)

Ils s'appellent / Elles s'appellent – They are called

Programme Music

Using the Elements of Music to create a mood or an atmosphere

A. Pitch The highness or lowness of a sound.



B. Tempo

The **speed** of a sound or piece of music.

FAST: Allegro, Vivace, Presto SLOW: Andante, Adagio, Lento

GETTING FASTER -

Accelerando (accel.)
GETTING SLOWER –

Ritardando (rit.) or Rallentando (rall.)



C. Dynamics

The **volume** of a sound or piece of music.

VERY LOUD: Fortissimo (ff)

LOUD: Forte (f)

QUITE LOUD: Mezzo Forte (mf)
QUITE SOFT: Mezzo Piano (mp)

SOFT: Piano (p)

VERY SOFT: Pianissimo (pp)

GETTING LOUDER: Crescendo (cresc.)
GETTING SOFTER: Diminuendo (dim.)



D. Duration

The length of a sound.



E. Texture

How much sound we hear.

THIN TEXTURE: (sparse/solo) – small amount of instruments or melodies.



THICK TEXTURE: (dense/layered) – lots of instruments or melodies.

F. Timbre or Sonority

Describes the **unique sound or tone quality** of different instruments voices or sounds.



Velvety, Screechy, Throaty, Rattling, Mellow, Chirpy, Brassy, Sharp, Heavy, Buzzing, Crisp, Metallic, Wooden etc.

G. Articulation

How individual notes or sounds are

played/techniques.

LEGATO – playing notes in a long, smooth way shown by a SLUR.

STACCATO – playing notes in a short, detached, spiky way shown by a **DOT**.

H. Silence

The opposite or absence of sound, **no sound**. In music these are **RESTS**.





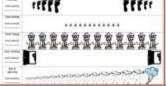
I. Notation

How music is written down.

STAFF NOTATION – music written on a **STAVE** (5 lines and spaces)

GRAPHIC NOTATION/SCORE – music written down using shapes and symbols to represent sounds.





J. How Music Works

Music can create an **atmosphere** or **ambience** *e.g., supermarkets and restaurants*.

Music can create an **image** *e.g.*, *in response to art, a story, a poem, a character, a situation* – this is called **PROGRAMME MUSIC**.

Music can be calming e.g., end of an evening in clubs and bars.

Music can be used for **spiritual reasons** *e.g.*, *worship, meditation, reflection, hymns and chants, yoga, and spiritual reflection.*

Music can be used for commercial purposes e.g., advertising, TV themes.

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

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.
- ${f 3.Fats}$ 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.
- **6.Water** Essential for hydration, digestion, and temperature regulation, making up a large portion of the body.

NUTRITION:

- Carbohydrates are essential in sporting activity because they provide a
 quick and efficient source of energy, <u>fueling</u> 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.

Year 7 Term 3: Health Knowledge Organiser

Age-predicted maximum heart rate (APMHR)

HRmax = 220 - age

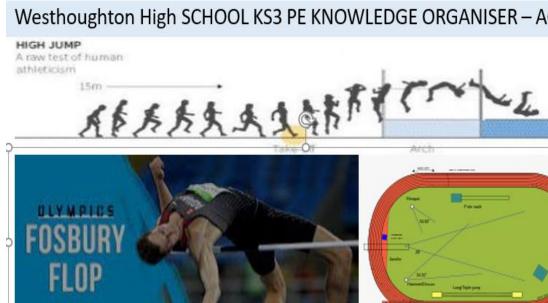
Karvonen formula

% 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.

Westhoughton High SCHOOL KS3 PE KNOWLEDGE ORGANISER – ACTIVITY: ATHLETICS



JAVELIN

Run up Athlete trots down a runway of at least 30 meters

Run to plant Athlete begins a cross-step and extends the arm

Spin

Plant

The foot opposite the throwing arm is planted. The Javelin is held back as long as possible

A 30-40 degree angle is best

Release



DISCUS

Swing Athlete swings discus back and forth

One-and-a-half-turn rotation. Thrower pushes catch up with the legs in off the opposite leg

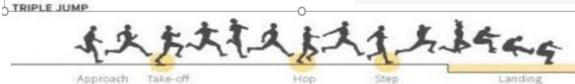
Drive Athlete's body and arms a twisting motion

Thrower straightens body, releasing the discus as the arm whips around

Release









LONG JUMP

Take-off

Approach Starting blocks



RELAYS 4 x 100m, 4 x 400m

Teams of four athletes, who must carry the baton, one after another.



Arch

HURDLES 100m (W) 110m (M) 400m

Athletes sprint and jump over ten hurdles per lane.



STEEPLECHASE 3,000m

Athletes sprint and must overcome five jumps, including a water jump, per lap.

HAMMER

Swing Thrower lightly swings the hammer like a pendulum

Windmill Thrower swings the hammer two or three times, gaining speed, staying relaxed

Thrower spins through three or four rotations, while swinging the hammer close to 459

Release Thrower's arms shoot upward, releasing the hammer at speeds of up to 110km/h









SHOT PUT

Grip The shot is balanced on

the fingers and pressed against the thrower's neck



Push off Upper body relaxed with back to the field

The thrower spins a few as one or as many as three times.



Thrust

Sudden extension of arm

51

SPRINTS

800m, 1,500m

(M) 10,000m (M)

100m, 200m, 400m,

3,000m (W) 5,000m

Westhoughton High School- ACTIVITY: CRICKET

Batting: Basic Straight Drive

- Stand with feet shoulder width apart and parallel to the batting crease.
- Slightly flex knees and keep weight evenly distributed.
- 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.
- Keep your head over the front foot and face the bowler.
- As the bowler approaches, the bat should remain close to the body but brought upward, bending both elbows, until the bat is parallel to the shoulders.
- As the ball is released, move the front foot behind the front knee and chest and keep the back leg straight and foot planted.
- The head should be level with the front knee. with the back foot raised up to the toes.
- On contact, the bat accelerates vertically through a straight path, keeping elbows bent and locked, until the face of the bat is pointing



Bowling: Basic Grip

- Place your thumb on the seam of the ball.
- Place your index finger on the seam, opposite your thumb.
- Hold the ball so that the seam is parallel to your. index finger.
- Place your middle finger to the right of the seam, approximately a quarter of the way down Throwing the ball.
- Wrap your ring finger and pinky into a loose fit.

Release

- Carry the ball close to your chin. Coil your body. and lean back.
- Drop your elbow and pant your leg bowling leg.
- Straighten your elbow and arm.
- Shift your weight to the lead leg.
- Thrust your bowling shoulder forward.
- Swing your arm like a windmill.
- Snap your wrist forward just before you release the ball.
- Release the ball.
- Follow through properly.
- Bend your elbow



Fielding:

Catching

English (orthodox catch)-Aim to catch at the base of your fingers. Bring the ball into your body Australian (reverse cup)- Attempt to catch at eyelevel and keep your hand high. Watch the ball the whole time until it hits your hands.

- Overarm- bring arm behind head, and transfer power from back foot to front foot. Used over longer distances
- Underarm- swing arm from back to front, release ball when hand pointing at target.

Long Barrier

Long barrier: Kneel side on with foot next bent leg, pick ball up side on.

Short Barrier

Short barrier- face on approach ball, foot behind and pick up ball.



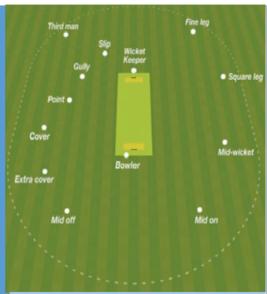
Westhoughton High School- ACTIVITY: Cricket

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.

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 bacl

Barriers

Long barrier: On a bumpy outfield, or if the ball is travelling at speed

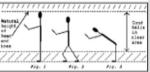


Short barrier: Used to pick the ball up at pace

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





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.

Rules:

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

Positions:

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

PLAN FOR ROUNDERS BACK TAPE 0.9 Metres behind HOME (1 yard) (1 yard x 2 feet) HOME 0.9 x 9.6 Metres INSIDE MEASUREMENTS 1st Base BOWLER'S PITCH 2.8 Metros (3 yards) by 0.8 Metres (2 feet) 11 Metres (12 yards) 11 Metres (6 yards) 3rd Base 2nd Base 11 Metres (12 yards) 3rd Base

Scoring System:

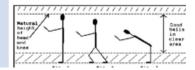
- → The batter will receive 1 point for every base they reach.
- → If the touch all four base without being caught out they receive 6 points.
- → If the batter is out they keep the points reward until that point. E.g. if the batter is touched by the all between 3rd and 4th base they would achieve 3 points and out.
- → If the bowler bowls a 'bad ball' the batting team receive 1 point.

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



WESTHOGHTON HIGH SCHOOL -ORIENTEERING

Skills and Techniques:

- → 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 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.

Diagrams and Symbols:

Map Symbols:

- Open Grass
- Rough Open
- Grass Garden
- Undergrowth
- Sandpit
- Tarmac
- Buildin
 - g
- All weather pitch
- Canopy
- Steep Bank
- Lamp
- Post Flag
- Pole Tree
- o- Goal Post
- ↑ Netball Post
- Orienteering
- Point Outer

г....

Positions:

- → The main aim of 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.
- → 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

Key Features:

→ Orienteering control



→ Orienteering Map



Key Words:

Location, Speed
Cardiovascular Fitness
Setting a Map
Navigation
Adventurous
Diverse Direction
Key
Catchment features
Terrain
Map
Compass
Control point
Thumbing
Attack points

Pacing

Key components: →Map

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 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

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?	mwwwm					
	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:	国际4600国					
	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	回點洗糕城回					
*	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. Scan the QR code to see all 30 of your Human Rights.						
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						
Cdress Young	 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 anonymem of the searless and searless anonymem of the searless anonymem of the searless and searless anonymem of the searless anonymem of the searless and searless anonymem of the searless and searless anonymem of the searless anonymem of the searless anonymem of the searless and searless anonymem	nous reporting.					
Concession	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: Electricity

Charges

A charged object is either positive or negative.

Opposite charges will attract.



The same charges will repel.

Static electricity is an imbalance



between negative **electrons** and

positive protons where the charge cannot move

Earthing an object will mean the **electrons** can

transfer to the ground by the path of least resistance.

Circuit Symbols





Battery W

Bulb







flotor Switch (off)

Switch (on)

Electric Fields

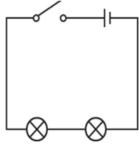
An **electric field** is a region surrounding a charged object where other charged objects can experience a force.

When charged objects enter the electric field, they experience a force and can repel or attract

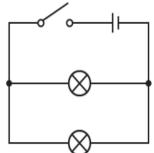
Series and Parallel

Series circuit - A circuit where the current has only one route

to flow.



Parallel circuit - A circuit with different 'branches' the current can flow through.



Keywords

- o Static
- Electron
- Repulsion
- Attraction
- Non-contact force
- o Electric field
- o Current
- o Ammeter
- Potential difference
- o Voltmeter
- Series circuit
- Parallel circuit
- Resistance
- Conductor
- Insulator

KS3 Electromagnetism: Electricity

Current

Current is a flow of negative charge in a complete circuit.

An ammeter



is a device that is used to

measure current. An ammeter measures current in Amperes (or Amps).

The ammeter is placed in series.

Current is constant throughout a series circuit.

Current across branches adds up to the current before and after the branches.

Potential Difference

Potential difference can also be called voltage.

Potential difference is the difference in the amount of energy that negative charges have between two points in a circuit.

A voltmeter —

difference.



is a device that measures potential

A voltmeter measures potential difference in Volts.

The voltmeter is placed in parallel to the two points it is measuring.

Resistance

Resistance is the opposition to the flow of current in a closed circuit.

Current will always flow the path of least resistance.

Resistance is measured in Ohms (Ω) and is produced by any device in the path of a current. For example, a lamp produces resistance.

The higher the resistance, the lower the current.

Resistance is a ratio between potential difference and current that can be represented by the formula:

$$Resistance = \frac{Potential\ Difference}{Current}$$

Resistance in objects

Electrical conductors are materials that allow electrical current to flow through easily.

Metals are good electrical conductors.

Electrical insulators are materials that do not allow electrical current to flow through easily.

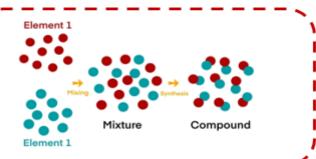
Keywords

- Static
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- o Ammeter
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- Series circuit
- Parallel circuit
- Resistance
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KS3 Pure and Impure Substances

Pure Substances: A pure substance consists of only one type of particle with fixed composition and distinct properties.

Determining Purity: A pure substance has a sharp melting and boiling point, while mixtures melt and boil over a range of temperatures.



Mixtures: Mixtures contain two or more substances physically combined, where each retains its properties.

Compounds vs Mixtures: A compound is chemically combined in a fixed ratio, while a mixture is physically combined and separable. Dissolving & Solutions: When a solute dissolves in a solvent, it forms a solution.

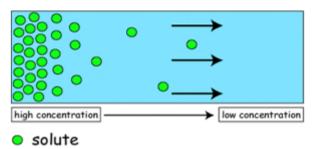
Keywords

- Pure Substance
- Mixture
- Compound
- Element
- Filtration
- Crystallisation
- Distillation
- Chromatography
- Diffusion

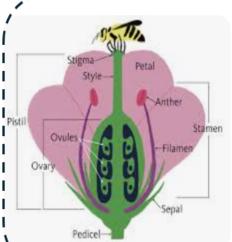
Common separation techniques include:

- Filtration: Separates insoluble solids from liquids.
- Crystallisation: Separates dissolved solids by evaporation.
- Distillation: Separates liquids based on boiling points.
- Chromatography: Separates substances based on solubility.

Diffusion: The movement of particles from high concentration to low concentration



KS3 Reproduction



Reproduction in plants.

Pistil: female.

Stamen: male.

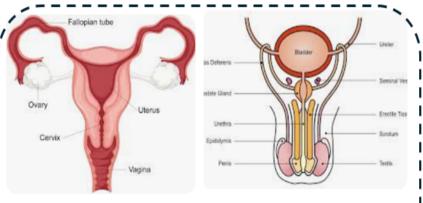
Fertilisation occurs when 1 sperm fuses (not meets) an ovum.

The sperm travels from the vagina, through the cervix, the uterus, the

oviduct where it fuses with

the ovum.





The ovum travels from the ovary, through the oviduct, uterus, cervix & out of the vagina.

Sperm travels from the testes, through the sperm ducts, urethra & out of the penis.

When pregnant, to keep the foetus healthy, Mum needs to:

Eat a healthy, balanced diet.

She will need to eat more protein and some substances like iron & calcium.

If she smokes, the baby can be born early and smaller.

If she drinks alcohol, it can affect the foetus' brain.

She needs to be vaccinated to prevent the foetus being affected by diseases like measles.

Keywords

- Reproduction
- Ovary
- o Oviduct
- Uterus
- o Vagina
- Cervix
- Testes
- o Sperm duct
- Urethra
- o Penis
- Fertilisation
- Fuse
- Foetus