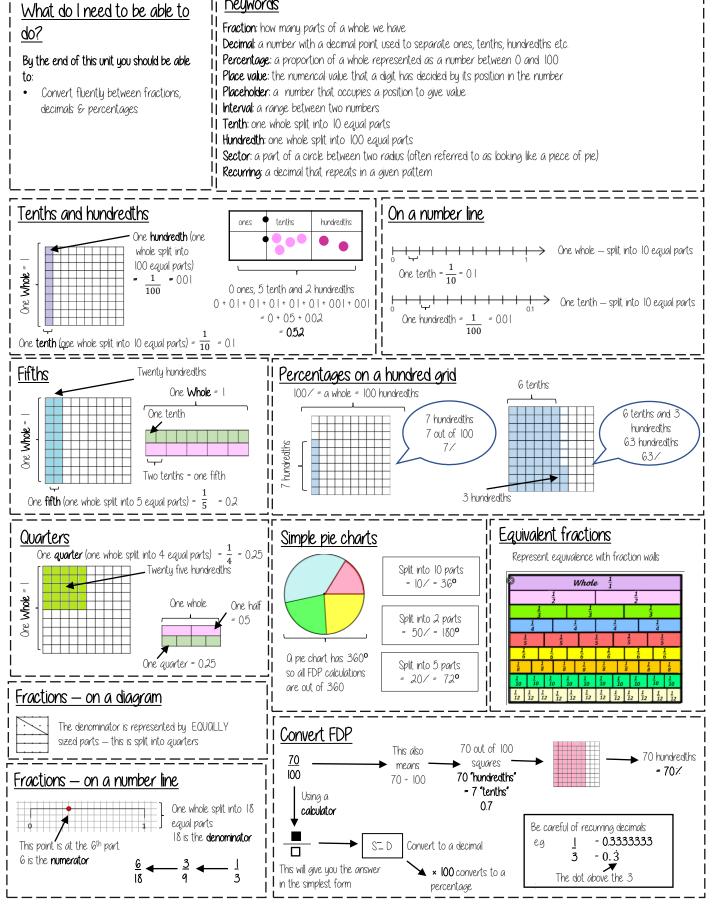
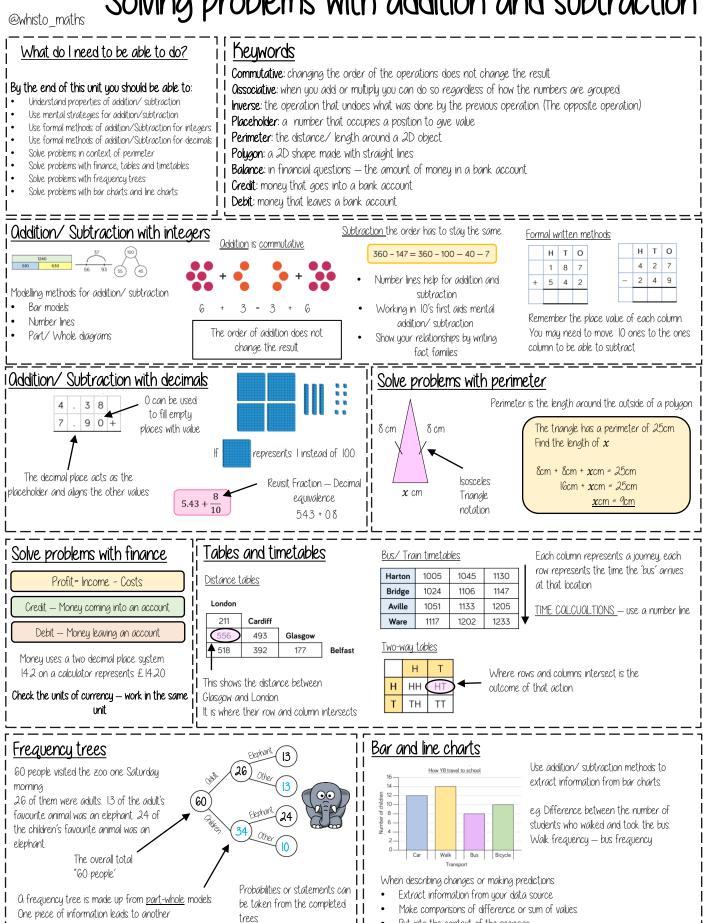
## YEAR 7 — PLACE VALUE AND PROPORTION... @whisto\_maths FDP equivalence



# YEAR 7 — APPLICATION OF NUMBER <sup>@whisto\_maths</sup> Solving problems with addition and subtraction

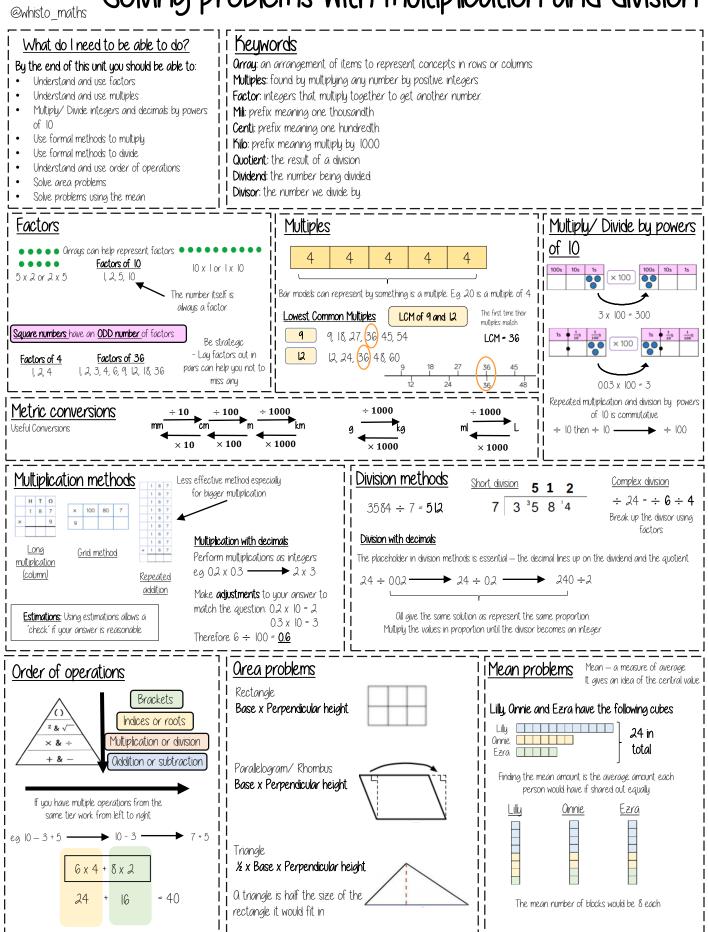


e.g. 34 children visited the zoo

<sup>•</sup> Put into the context of the scenario

# YEAR 7 — APPLICATION OF NUMBER

## Solving problems with multiplication and division



## YEAR 7 — APPLICATION OF NUMBER Fractions and percentages of amounts

#### @whisto maths Keywords What do I need to be able to do? By the end of this unit you should be able to: Fraction: how many parts of a whole we have Find a fraction of a given amount Equivalent: of equal value Use a given fraction to find the whole or other Whole: a number with no fractional or decimal part. fractions Percentage: parts per 100 (uses the / symbol) Find the percentage of an amount using mental Place Value: the value of a digit depending on its place in a number. In our decimal number sustem, each place is methods 10 times bigger than the place to its right Find the percentage of a given amount using a Convert: change into an equivalent representation, often fraction to decimal to a percentage cycle. calculator Fraction of a given amount 90 The bar represents the whole amount Find $\frac{2}{5}$ of £205 30 30 30 £205 15 15 Use bar models for comparisons $\frac{1}{3}$ of 90 = 30 45 2 out of the 5 equal parts $\frac{2}{2}$ of 45 = 30 £205 ÷ 5 = £41 2 x £41 = £82 $\therefore \frac{1}{3}$ of 90 = $\frac{2}{3}$ of 45 Each part of the bar model represents £41 Use a fraction of amount The wording of the question is important to setting up the bar model 63 $\frac{2}{3}$ of a value is 70. What is the whole number? 70 ÷ 2 = 35 Each part of the bar **^** 70 🔺 Find the whole 21 $\frac{3}{4}$ of a number is 63. 21 21 model represents 35 35 35 35 84 What is $\frac{1}{6}$ of the number? Use the whole to 35 x 3 = 105 find a given 14 14 14 = 14 The whole number is 105 part Find the percentage of an amount (Calculator methods) Find the percentage of an amount (Mental methods) The whole represents 100% Using a multiplier $|0/2 = \frac{1}{10}$ of the whole | Find 65% of 80 Fraction, decimal, percentage conversion $65\% = \frac{65}{100} = 0.65$ - The multiplier 20% 40% 60% 80% 100% 0.65 x 80 = 52 $50\% = \frac{5}{10} = \frac{1}{2}$ of the whole $|0 \times = \frac{1}{10}$ of the whole This brings up the / button on screen Using the percent button $20\% = \frac{2}{10} = \frac{1}{5}$ of the whole $5^{\prime} = \frac{1}{20}$ of the whole You will see 65% Find 65% of 80 Tupe 65 You can also use the Method I: calculator to support non Find 65% of 80 Press SHIFT ( (%) 65% = 10% x 6 + 5% calculator methods and 80 = (8 x 6) + 4 find 1% or 10% then add Press 🔀 80 and then press = = 52 percentages together Method 2 8 8 8 8 8 8 65% = 50% + 10% + 5% "of" can represent 'x' in calculator methods = 40 + 8 + 4

For bigger percentages it is sometimes easier to take away from 100  $\not\!\!\!/$ 

= 52

#### Year 7 Science Knowledge Organiser – Elements, Atoms & Compounds

Key	Vocabulary:		Elements & I	Periodic Table	Compounds and formulae			
	-		14. Ele	ements	17. Compounds			
1	Atom	The smallest particle of an element that can exist.	<ol> <li>All substances are composed of atoms</li> <li>Elements are made</li> </ol>	<ol> <li>There are about 100</li> <li>different elements</li> <li>An atom is the smallest</li> </ol>	<ul><li>14. Compounds are formed from elements by chemical reactions</li><li>15. Chemical reactions always involve the production of one</li></ul>			
2	Condensing	A physical process that results in the change of state from a gas or vapour to a liquid.	from only one type of atom. e.g. this diagram shows an	part of an element that can exist 5. Elements have specific	or more new substances e.g. in the diagram below there are two elements that when they react together, make a new compound			
3	Compound	A compound is a substance that contains two or more elements chemically bonded together.	element because it is made from only one type of atom.	physical and chemical properties. 6. Physical properties = state,				
4	Corrosive	Has the potential to seriously damage skin or surfaces. The <b>corrosive</b> liquid burned through the bench.		<ul> <li>appearance, smell, magnetic,</li> <li>etc.</li> <li>7. Chemical properties =</li> <li>what it reacts with and how</li> <li>reactive it is</li> </ul>	liquid element gas element solid compound 16. A compound contains two or more elements chemically			
5	Element	A substance made up of only one type of atom. <i>Oxygen is an <b>element</b>.</i>	<b>15. Perio</b> 8. Elements are organised in th	dic Table	joined together in fixed proportions 17. A compound has different properties from the elements it's composed			
6	Flammable	Will set on fire easily.	9. The Periodic Table is organis 10. Groups are vertical column	ed into periods and groups	18. Compounds can only be separated into elements by chemical reactions			
7	Matter	Any substance which takes up space and has mass. All the chemicals were made of	<ol> <li>Periods are horizontal rows</li> <li>Elements in a group have s</li> </ol>	5	19. A molecule is two or more non-metal atoms chemically joined together – this can be an element (e.g. $H_2$ ) or a compound (e.g. $H_2$ O)			
		matter.	metals are on the right hand si	de of the 'staircase'.	18. Naming compounds			
8	Molecule	A small group of non-metal atoms chemically joined together There are millions of <b>molecules</b> of water in a swimming pool.	1         H           *****         ******           1         Be	NON-METALS B B C C C C C C C C C C C C C	<ul> <li>20. There are rules to follow when naming compounds:</li> <li>a. Usually the metal goes first and the non-metal goes second</li> <li>b. If a metal and a non-metal react, the name of the non-metal ends in –ide</li> <li>c. For some compounds, if there are a different number of</li> </ul>			
9	Malleable	Can easily be shaped.		7         28         29         30         31         32         33         34         35         36           0         Nie         Cuu         Zm         Ga         Ge         As         Se         Br         Br         Locate           9/33         364/361         63/31         63/32         71/327         74/3	atoms we add in 'mono' for 1, 'di' for 2 and 'tri' for 3			
10	Particle	A tiny portion of matter.		5 46 47 48 49 50 51 53 53 53 54 h 20 10 10 10 10 10 10 10 10 10 10 10 10 10	d. If the compound names ends in -ate then it usually			
11	Periodic Table	A table which orders all of the known chemical elements.	35         56         72         72         73         74         75         76           Cost         Bit         Bit		contains three elements, including a non-metal and oxygen			
12	Sonorous	Makes a ringing sound when struck.	16. Hazar	d Symbols	<b>19. Chemical formulae</b> 21. Each element is represented by a chemical symbol.			
13	State	Short for 'state of matter'. The states of matter are solid, liquid and gas. The <b>state</b> of water at room temperature is liquid.	Corrosive Explosive Oxidi	Serious Harmful to health the	<ul> <li>e.g. Iron = Fe, oxygen = O, magnesium = Mg, gold = Au</li> <li>22. The chemical formula of a molecule or compound tells you which elements and how many atoms of each are in one molecule</li> </ul>			
					23. The small subscript number after an element symbol is			

Harmful Flammable

Toxic

Gas under

pressure

the number of atoms of that element are in one molecule

e.g. In  $HNO_3$  there is 1 atom of hydrogen, 1 atom of nitrogen and 3 atoms of oxygen per molecule.

#### Year 7 Science Gravity

	Key Vocabulary:			Gravity	2	21 Satellites				
1 2	Accelerate Asteroid	When an object changes speed or direction. A small, rocky object that orbits the Sun (smaller than planets).	• ( • ( •	Gravity can also be called <b>gravitational force.</b> Gravitational forces act <i>on</i> and <i>between</i> all objects. Gravity is a non-contact force. Non-contact forces have a force field that weakens with distance.	•	The <b>satellites</b> orbit planets, asteroid belts and comets. A natural satellite is a moon which orbits a planet. Artificial satellites include those that orbit the Earth for communication.				
3	Astronaut	A person who is travels or is trained to travel in space in a spacecraft.	(	The gravitational field strength decreases with Jistance. The gravitational field strength increases with mass.	2	Day and Night and Seasons				
4	Attract	When one object pulls another towards it.	18	Weight and Mass	•	It takes the Earth <b>365 days</b> to orbit the sun once. This is a				
5	Contact Force	A force that requires objects to be directly touching in order to have an effect.		The unit of mass is kilograms (kg). Mass stays the same everywhere.	•	<b>year.</b> Planets rotate on their axis which produces day and night. The Earth rotates once every 24 hours. The seasons are caused because the Earth is tilted on an				
6	Eclipse	When light to an object in space is blocked by another object.	• 1	<b>Nass</b> stays the same everywhere. <b>Neight</b> is the force of gravity acting on a mass. The unit of weight is Newtons (N).		axis at 23.5°C.				
7	Galaxy	A system of millions if stars, gas and dust, held together by gravity.		Neight = mass x gravitational field strength (N) (kg) (N/kg)		_A				
8	Gravity	The attractive non-contact force between all objects with mass.	19	Space and Gravity						
9	Gravitational Field Strength	The force exerted per unit of mass (a measure of how 'strong' the gravity is.	• ,	Gravity is the force that holds objects in orbit. An orbit is the curved path of an object in space around another object in space.						
10	Lightyear	The distance light can travel in one year.	• -	There are many billions of <b>galaxies</b> in the universe. Dur solar system is a tiny part of one galaxy.						
11	Mass	The amount of matter in an object.	• •	The Universe is so large that distances are described in ightyears.						
12	Non-Contact Force	A force that doesn't require objects to be directly touching in order to have an effect.		A lightyear is the distance that light can travel in 1 Jear.	2	23 Eclipses				
13	Orbit	The curved path of one object around another, usually a planet, moon or satellite.	20	The Solar System	•	An eclipse is when the light to an object in space is blocked by another object. There are two types of eclipses; a solar eclipse and a lunar				
14	Satellite	An object in space that orbits a planet.	5	Dur solar system contains lots of objects including the sun, planets, satellites, asteroid belts and comets. The <b>sun</b> is the star at the centre of our solar system.	•	<ul> <li>eclipse.</li> <li>A solar eclipse happens when light from the Sun is blocked from reaching parts of Earth. This happens when</li> </ul>				
15	Universe	All of space and time, including planets, starts, galaxies and all matter and energy.	• •	The <b>planets</b> orbit the sun. The planets are in the order: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.	<ul> <li>blocked from reaching parts of Earth. This happens whether the moon comes between the sun and the Earth.</li> <li>A lunar eclipse happens when light from the Sun is blocked from reaching the moon by the Earth when the sun successful to the supervised to t</li></ul>					
16	Weight	The force of gravity acting on a mass.				Earth comes between the moon and the sun.				

### Year 7 ART Term 2 Knowledge Organiser

### **Keywords**

Geometric - Geometric shapes are shapes made out of points and lines including the triangle, square, and circle.

Collage - Collage describes both the technique and the resulting work of art in which pieces of paper, photographs, fabric and other materials are arranged and stuck down onto a supporting surface, such as paper.

Vibrant – Bright and strong, often describes a colour.

**Ensemble** – A collection of parts or details.

**Tribal** - Tribal art is the visual arts and material culture of indigenous peoples. It is also known as non-Western art or ethnographic art.

Structure - Structure relates to the arrangement and mutual relation of the objects within a piece of art. It is similar to the composition.

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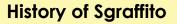
- She was born in the city of Guatemala
- Animals and her native culture inspired her to start creating art.
- She studied Art and Graphic Design in Guatemala.
- She moved to the UK and is now working. Her works have become part of Urban Outfitters a clothes shop.
- She uses black outline to make her work look 3D.
- She adds intricate patterns onto her shapes to add detail.
- She uses bright, bold and vibrant colours.
- Her work is usually in structured columns.
- The shapes she adds are geometric.







• ` • ` • ` • `



Given that the word sgraffito is derived from the Italian word graffiare meaning 'to scratch,' the technique did indeed begin in Italy and dates back to around the 15th or 16th century.

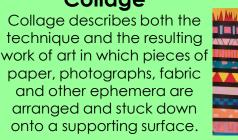
Sgraffito played an important part in Rome during the Renaissance period and was frequently used by the famous artist Caravaggio and his partner Maturino da Firenze.

The artists first started using sgraffito on the exterior of buildings, using it to create incredibly detailed frescos on housing and palace facades.





#### Collage





colours using oil To scratch pastel on to your paper.



Step 2: Then cover the page with a black oil pastel. Make sure that you add an even layer of black so that no colour is showing.

or pen

Step 3: Using a sharp pencil 'SCRATCH' in Aztec patterns.

..............

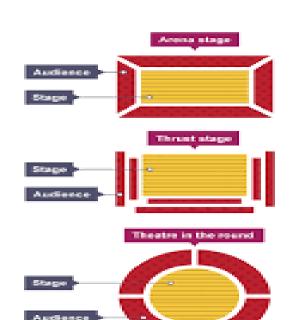
#### Year 7 HT3 Drama Knowledge Organiser

#### **Summary of topic**

Through exploration the students understand the differences of Victorian education to school today. They also start explore the famous text Oliver Twist and understand the hardship faced during the Victorian period.

#### Aims of the topic

To be introduced to the historical period of the Victorians, play a Victorian character and to explore the famous text of Oliver Twist.







- Sub-text
- Props
- Staging
- Analysis
- Character motivation

The Victorians/ Oliver Twist Y7 Knowledge Organiser

Lighting

Accent

**Rehearsal techniques** 



## Lighting Terminology

#### **Types of Lanterns-**

**Profile Spotlight-** A focussed beam of light to highlight one specific area of the stage

Flood- A light that illuminates a wide area of the stage

**Parcan**- A powerful, bright beam of light with an unfocussed outline

**Fresnel**- An adaptable light which size can be increased or decreased by focussing the beam or using barn doors



Follow Spot- A strong spotlight that can be moved to follow the action on stage

**Strobe Light-** A light that constantly flashes to create a slow motion or non naturalistic effect

#### **Colour Connotations**



### Year Subject Term Knowledge Organiser 7: Spreadsheets

**Data** and **information** are not the same. Data: facts and figures in their raw form Information: data that has been given structure or meaning

For example: **Data**—10, 2107, 18 Information—Time 10am, date 21st July, temperature 18°

The tool bar ribbon at the top allows for formatting of the data. Changing colour, size, style etc

There is a **sort** and **filter** tool that allows for data to be arranged in ways that is most useful for the user e.g. alphabetical, highest, lowest etc.

**Conditional formatting** can be set to allow the cell formatting to automatically change if certain criteria is met. For example a cell might turn red if there was a negative Inumber

In order to complete calculations spreadsheets make use of formula. A formula uses the following basic symbols The = symbol is always at the start of a formula

The + symbol is used for addition

- The symbol is used for subtraction
- The \* symbol is used for multiply
- The / symbol is used for divide

Functions are also used which are predefined formula.

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Data can be gathered from Common **functions** are **SUM**—adds a range of cells **MAX**—returns the largest value from selected cells **MIN**—returns the smallest value from selected cells **AVERAGE**—provides the arithmetic mean (average) of selected cells **COUNTIF**—counts the number of data. cells in a range that meet the given criteria **IF**— allows logical comparisons location.

different sources **Primary** source: collecting data yourself **Secondary** source: someone else collects the data Each box on a spreadsheet is called a **cell** and they hold Each cell has a unique cell

reference to identify its

### Year 7 Subject Term Knowledge Organiser

#### Dance

#### Knowledge

Explore movements, stylistic features, actions, space and dynamics in dance. Action steps and co-ordination (travel, step, turn, balance, stillness) performance skills (projection and facial expressions) musicality (tempo, speed and timing) jumping. Stretching, bending

#### Skills

Explore movements, stylistic features, actions, space and dynamics in dance.





#### **Key Words**

Stylistic Features – How a dancer or dancers, executes the different dance genres, and their own specific style qualities.

Dynamics – How the dancer moves e.g. fast/ slow, sudden/ sustained Resilience – The capacity to recover quickly from difficulties; toughness.

Role model – Someone who is worthy of imitation – like your beloved teacher or a well behaved celebrity.

Reflection – Serious thought or consideration.

#### Knowledge

#### Lindy hop

The Lindy Hop is an American dance which was born in the African-American communities of Harlem, New York City, in 1928 and has evolved since then. It was very popular during the swing era of the late 1930s and early 1940s. Lindy is a fusion of many dances that preceded it or were popular during its development but is mainly based on jazz, tap, breakaway, and Charleston. It is frequently described as a jazz dance and is a member of the swing dance family.

The first dances named as Lindy Hop were born around the time the aviator Charles Lindbergh made his ground breaking flight across the Atlantic Ocean in May 1927. The most famous Lindy Hop dance, which is not connected to the other Lindy Hop dances, was born in the Harlem dance marathon in 1928 where George Snowden and Mattie Purnell reinvented the breakaway pattern by accident.

Skills- steps Twist Around (for two 8 counts) Double Break Break & Hold with Pecking "Duck" – Swingout from Closed with Leader's Duck Promenade Promenade Flip Flop Rhythm Break Forward





#### Year 7 PE Knowledge Organiser- Orienteering

The main aim of orienteering is to complete the set course by finding control markers in the correct order in the shortest time.

#### **Skills and Techniques**

Orienteering is a sport that require **navigational skills** using a **map and compass** to **navigate** from point to point in **diverse** and often unfamiliar **terrain** whilst moving at **speed.** Participants are given a **topographical map**, usually a specially prepared orienteering map, which they use to find **control points**.

<u>Running activities</u>: All lessons start with running activities to encourage pace and speed. Cardiovascular fitness is required over different types of terrain.

<u>Observing surroundings</u>: Look at your surroundings (playground/ cage/ grass areas/ tree) and identify key features that help you find your precise location. You need to observe your surroundings before looking for markings on a map.

<u>Orientating a Map.</u> You need to orientate your map (move it) to line up with the key features on the ground and check it is the correct way round to the direction you are facing.

<u>Directions:</u> - understand the Cardinal Markers – North, South, East and West and their relation to features on the ground and to places beyond the school site.

<u>Map Reading</u> – Recognise symbols on a map, be able to use a key to recognise symbols and colours on an orienteering map.

<u>Human features</u>: Know that a human feature is influenced by man (buildings, benches, fences, walls)

<u>Physical Features</u>: Know that a physical feature is natural (rivers, beaches, hills, forests)

tarmac	
soft surfaces	
mown grass	
rough grass	
new trees	
sand	
bushes	
pond	0
garden	
out of bounds	
slope	
path	
ditch	
steps	
fence, gate	711-
high fence	
tree	00•
tree root stock	×
building, canopy	
seat, post	н.

#### Key words

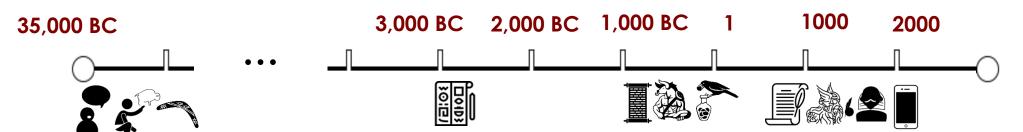
Orienteering, Location, Speed, Cardiovascular Fitness, Setting a Map, Navigation, Diverse Direction, Key, Cardinal Markers, Terrain Map Compass, Control point

#### Rules:

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.



Adjective:	A word which describes a noun
Adverb:	A word which describes a verb
Anthropomorphism:	the attribution of human characteristics, emotions, and behaviours to animals
Complex sentence:	consists of a main clause plus one or more subordinate clauses.
Compound sentence:	Has <u>two</u> main clauses, joined by a co-ordinating conjunction.
Connotations:	The links or associations you have with a word
Fable:	a short story, typically with animals as characters, conveying a moral.
Figurative Language:	refers to words or phrases that are meaningful, but not literally true
Freytag Pyramid:	dramatic structure outlining the seven key steps in successful storytelling.
Juxtaposition:	Opposing or contrasting ideas nearby each other in a text
Metaphor:	A comparison between things to say something is something else.
Moral:	A lesson that can be derived from a story or experience.
	A traditional story, especially one concerning the early history of a people or explaining a natural or social
Myth:	phenomenon, and typically involving supernatural beings or events.
Oral tradition:	The stories that a group of people share by telling stories and talking to each other.
Personification:	Giving an object or thing human qualities
Pronoun:	A word which replaces a noun (e.g. I, she, he, it, they, we, you)
Prosody:	The musical quality of speech, like stress, rhythm, and intonation.
Simple sentence:	Contains only one main clause. It <u>must</u> have a subject and a verb, and <u>may</u> have an object.
Simile:	Figurative language: making a comparison by saying something is like something else (e.g. the stars are like diamonds)
Symbolism:	when one object or thing stands in the place of something else, such as an idea, another object, a person, or a place
Tone:	The mood or emotion of the text
Verb:	An action or a doing word

## MFL Knowledge Organiser

Topcoc-Drocont

## KO. Yr7 Hair and eyes

len	<u>ses-Present</u>	<b>Opinions &amp; Pronouns</b>				
AVO	IR = to have	J'aime				
J'ai	I have	J'aime beaucoup				
Tu as	You have	Je n'aime pas Je n'aime pas du tout				
II/ Elle/ On a	He/She/It has	J'adore				
Nous avons	We have	Connectives				
Vous avez	You all have	• Aussi= also				
Ils/ Elles ont	They have	• Et= and				
PORTER = to wear		<ul> <li>Mais= but</li> <li>Ce pendant = however</li> </ul>				
Je porte	l wear	Parce que = because				
Tu portes	You wear					
Il/Elle/On porte	He/She/It wears					
Nous portons	We wear	12000				
Vous portez	You all wear					
Ils/Elles portent	They wear					

<b>Adjectives</b>	
Bleu(e)	Blue
Marron	Brown
Verte	Green
Gris(e)	Grey
Noir(e)	Black
Raides	Straight
Bouclé(s)	Curly
Ondulé(s)	Wavy
Longs	Long
Court	Short
Mi-longs	Mid length
Chauve	He/she is bald

J'aimerais avoir= I would like to have J'ai les yeux... = I have... eyes J'ai le cheveaux... = I have... hair J'ai rousse = I am a red-head

#### **Rivers Knowledge Organiser**

#### Water cycle

- The water cycle is powered by changes in temperature from the sun, and fuels our entire planet
- The water cycle is made up of three main processes evaporation, condensation, and precipitation
- **Evaporation** happens when the heat from the sun warms surface water in the form of lakes, rivers, oceans, and runoff from rain and turns it into <u>water vapour</u>
- **Transpiration** is when water inside plants is turned into water vapour through the same process
- **Condensation** is when the water vapour begins to cool as it rises. As this happens, tiny water droplets come together to form clouds
- **Precipitation** is the rain, snow, sleet, or hail that falls when these water droplets cool enough to turn back into a liquid or a solid

- Water then returns to the ocean as throughflow (water that has absorbed into and moves through the soil), groundwater flow (water that has soaked below the soil and deep into the earth), or surface runoff (water that runs over the top of soil and rocks).

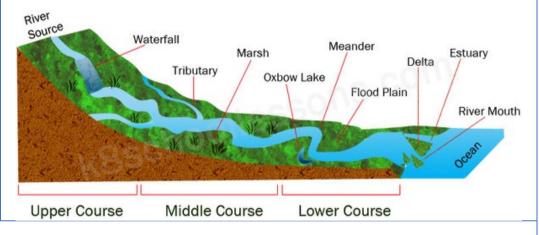
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#### **River features**

**Source** – the place where a river begins, usually a marsh or bog

- Marsh an area that floods frequently, where the land is usually wet
- **Tributary** small rivers that join a larger river
- **Confluence** the point at which two rivers meet
- **Floodplain** the land where a river floods
- Mouth the point where a river meets the sea

**Estuary** – a point at the mouth of a river where it meets the tide from the ocean/ sea and the freshwater and saltwater mix



#### **River processes**

#### **Erosion**

- Hydraulic action — as water rushes by, it forces air into cracks in the rock, which continue to widen and break

- Abrasion — sand and rock are thrown against the riverbed and banks, wearing them away like sandpaper

- Attrition — pieces of rock are thrown against each other, causing sharp edges to break off and eventually becoming smaller and rounder

- Corrosion — weak acids in the water break down the rock in the riverbed and banks

#### **Transportation**

- **Traction** large stones are rolled along the riverbed
- Saltation smaller stones bounce along the riverbed over one another

- **Suspension** — small particles of rock, dirt, and plants float in the water of a river, making it look cloudy

- Solution — particles of rock and chemicals are dissolved and carried along in the water unseen

#### **Deposition**

Rivers **deposit** (drop) eroded material as they lose speed when:

- the river becomes shallower
- the amount of water is reduced

- the amount of material being carried increases

- the river reaches its mouth

They do this because they no longer have the **energy** to carry it.

#### **River landforms**

#### Upper course

**V-shaped valleys** – steep valleys that are formed as the river erodes the land it passes over; they are v-shaped because the land

**Waterfalls** – steep drops formed by uneven rates of erosion as rivers pass over differing bands of hard and soft rock

#### Middle course

**Meanders** – bends in the river that are made more extreme as water flows more forcefully around the outside bend, eroding the riverbank further there and leading to deposition around the inside bend **Ox-bow lakes** – when a meander bends so much that the river takes a short cut and leaves part of the meander cut off from the rest of the river

 ${\bf Levees}$  – steep banks built up along a river intentionally or as a result of material being deposited on the banks during flooding

#### Lower course

Deltas – material that is deposited and builds up at the mouth of a river

### Factors affecting flooding Natural

**Heavy rain** — when it rains very heavily the water doesn't have time to soak into the soil, so it runs over the ground, causing flooding **Soggy soil** — when soil is already holding a lot of water, it can't absorb any more

**Tributaries** — the more a river has, the higher the risk of flooding due to all the extra water

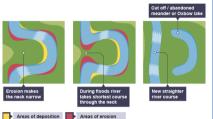
**Steep slopes** — water flows faster down steep slopes, meaning it doesn't have time to soak into the soil

**Impermeable rock** — some areas have **impermeable** rock (water cannot pass through) just below the soil, so water can't soak down **Human** 

**Deforestation** — leaves can catch rainwater (called **interception**) and tree roots take up a lot of water from soil; when there aren't any trees in an area this cannot happen

**Built-up areas** — rain can't soak through concrete, so it is carried away by drains and quickly returns to the river; if drains are blocked street can flood quickly even if they are not near a river

Case Study: Flooding in the UK					
In January 2014 the county of Somerset in southwest England flooded. Different people and groups					
effects. In the table below are some of these ca	uses and effects.				
Causes	Effects				
- Heavy rainfall	- People displaced (evacuated from their				
- Soggy soil	homes)				
- Deforestation	- Rebuilding costs				
<ul> <li>More compact soil from farming</li> </ul>	- Costs to farmers (crops were ruined, livestock				
- Not dredging the river enough (clearing it of	died)				
plants and other material in the bottom)	- Disruptions to services like healthcare,				
- Urbanisation (towns and cities being build	education, and transportation				
where the river would naturally flood)	- Floods can restore nutrients to soil, lakes, and				
	rivers				
	In January 2014 the county of Somerset in south had many ideas about the <b>cause</b> of the flooding <b>effects</b> . In the table below are some of these ca <u>Causes</u> - Heavy rainfall - Soggy soil - Deforestation - More compact soil from farming - Not dredging the river enough (clearing it of plants and other material in the bottom) - Urbanisation (towns and cities being build				



### Year 7 History Term 2 Knowledge Organiser: The Church Vs The King

Kings of England 1066-1216					
1066-1087	William I				
1087-1100	William II				
1100-1135	Henry I				
1135-1154	Stephen & Matilda				
1154-1189	Henry II				
1189-1199	Richard I				
1199-1216	John				

#### The Power of the Medieval Church

The Pope: controlled the Church everywhere. The King: wanted to control the Church in his own country. 6.03 ...told ordinary people how to get to heaven and avoid hell. The Church in England... ... controlled churches in ...was wealthy every village and town. and owned lots of land. ...told priests what to say.

POPE	The ruler of the Catholic Church, who lived in Rome.
THE CHURCH	The whole organisation of priests and churches, ruled over by the Pope.
CATHOLIC	A type of Christianity, ruled by the Pope. Most Christians in the Medieval periods were Catholics.
ARCHBISHOP	An important person in the Church, below the Pope but above priests. The Archbishop of Canterbury is the most important person in the Church in England.
PRIEST	A person who works for the Church to lead prayers and religious services.
CATHEDRAL	A large and important church.
MARTYR	Someone who dies or is killed for their beliefs.
MONARCH	A king or queen.
TAX	Money that people have to pay to the government.
TYRANT	A powerful person who rules cruelly or harshly.
MAGNA CARTA	The 'Great Charter'. A document that sets out rules for Kings to follow.
CONSTITUTION	A set of rules that sets out how a country is run.
INTERPRETATION	A opinion or version of past events, based on evidence.



## RE 7.3 What is the purpose of this life?

## Key terms

- 1. Afterlife A life that some people believe begins when you die.
- 2. Judgment To have a decision made by God about how good you have Been.
- 3. Allah The name of the Islamic God.
- 4. Five Pillars of Islam Five ways Muslims can practise to be a good Muslim.
- 5. Muhammad The founder of Islam.
- 6. Ummah Community
- 7. Qur'an Islamic Holy Book
- 8. Calligraphy Islamic art that uses Arabic symbols.

## **Crucial Commands:**

Describe: Say in detail what something or someone is like, and the impact it has. E.g. Describe rites of passage in Judaism.

Explain: Say why something or someone is important, and the impact it has. E.g. Explain why Moses is important.

Discuss: Write about at least two points of view and explain why these points of view are valuable or not. E.g. ""Yom Kippur is the most valuable Jewish festival" Discuss.

#### **Beliefs**



### **Right vs Wrong**

Muslims use Holy books to learn right from wrong! The most important holy book is the Qur'an. This is the exact word of God that has never changed in 1500 years! Similarly, Muslims can use Hadiths to know what Muhammad would do right.



### Islamic art

Muslims think it is wrong to try to represent Allah's work.

- For this reason, Muslims do not believe in making pictures of humans or animals.
- It is a very serious crime in Islam to try to draw Allah or his messenger Muhammad.
- Muslims believe that Allah (their God) is the creator and the focus of our worship. They want to avoid people worshiping anyone apart from Allah, therefore it is easier to avoid images.

### Purpose of Life

Akhirah is the word Muslims use to refer to life after death. Belief in an afterlife encourages Muslims to take responsibility for their actions. They know God will hold them accountable and reward or punish them accordingly.



They believe in Jannah and wanting to avoid Jahannam!

### Nuh

God charged Noah with the duty of preaching to his people, advising them to abandon worshipping fake gods and to worship only God and to live good and pure lives. Although he preached the Message of God with enthusiasm, his people refused to mend their ways, leading to building the Ark and the Deluge, the Great Flood.



### Muhammad

The Prophet Muhammad (pbuh) was a merchant born in the city of Mecca. Muhammad was respected as he was a wise and fair businessman. Tradition says Muhammad escaped the busy city during the month of Ramadan and went to the mountains by himself to think. Muslims believe Allah chose Muhammad to be his Prophet because he was a fair and wise man and because he was concerned for the people.

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#### Year 7 Subject Term Knowledge Organiser- PE orienteering

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711-

<u>~</u>

н.

new trees

sand

pond

slope

path

ditch

steps

tree

fence, gate

high fence

seat, post

tree root stock

building, canopy

bushes

garden

out of bounds

#### Skills and Techniques

Orienteering is a sport that require **navigational skills** using a **map and compass** to **navigate** from point to point in **diverse** and often unfamiliar **terrain** whilst moving at **speed**. Participants are given a **topographical map**, usually a specially prepared orienteering map, which they use to find **control points**.

<u>Running activities</u>: All lessons start with running activities to encourage pace and speed. Cardiovascular fitness is required over different types of terrain.

Observing surroundings: Look at your surroundings (playground/ cage/ grass areas/ tree) and identify key features that help you find your precise location. You need to observe your surroundings before looking for markings on a map.

<u>Orientating a Map.</u> You need to orientate your map (move it) to line up with the key features on the ground and check it is the correct way round to the direction you are facing.

<u>Directions:</u> - understand the Cardinal Markers – North, South, East and West and their relation to features on the ground and to places beyond the school site.

<u>Map Reading</u> – Recognise symbols on a map, be able to use a key to recognise symbols and colours on an orienteering map.

<u>Human features</u>: Know that a human feature is influenced by man (buildings, benches, fences, walls)

<u>Physical Features</u>: Know that a physical feature is natural (rivers, beaches, hills, forests)

Rules:

.Skills and technique KEY: know the symb	s ools used in the key for the school and	
fields Maps		Orient
tarmac soft surfaces		Cardiova
mown grass		Navigation,

teering, Location, Speed, ascular Fitness, Setting a Map, Diverse. Direction. Key, Cardinal Markers. Terrain, Map, Compass, Control point, Thumbing Pictures Orienteering flag Working as a team

Glossary

Tactics

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.

If you are working in a team, you must share the responsibility of finding the controls and make sure that all members of your team have an opportunity to problem solve to find each of the controls.

Team work is necessary when you are completing an orienteering course with others. You must communicate and discuss each decision before navigating to the next control point. Mistakes can easily be made through poor communication.

All control marker are outside, you must not go inside the school building to cut through to find controls.

You and your team must find the controls yourself and not shout out control symbols to others

In order to be given a finish time for finding controls the whole team has to finish together

A key tactic to use is pace. You must make sure that you don't sprint off too quickly without orientating yourself and your map. You need to be able to keep a steady pace up all the way round the course.

You need to be able to orientate your map quickly by finding key features on the ground and then lining yourself and your map up to face the same direction

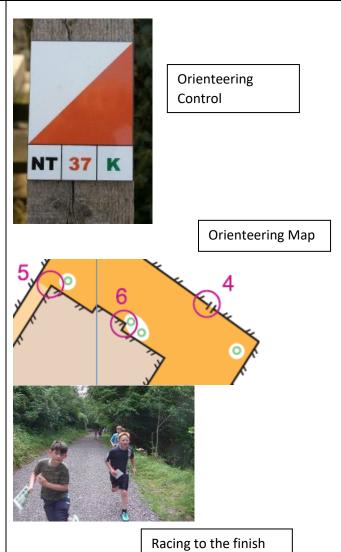
Each time you change direction whilst you are running you should change your grip on the map so that the map is reorientated and remains facing the same direction as the features on the ground.

Star exercises: In a start exercise you have to run out from a central start point to a control and remember the answer on the control marker, if you are in a team you should each remember a different answer if you have to run to more than on control marker.

Courses, sometimes you will be given more than one control to find at a time which makes up a course. You may do a different course to another team and as it's a race you should not shout out your answers.

Thumbing- to help you know where you are on the map, you mark your position with your thumb. As you move along the ground, you should move your thumb to your new position on the map.

Line features – you can use features on the ground to help you run towards the control marker, (e.g. edge of the cage/ line of trees / fence) so that you can run in the general direction towards a control and then be more precise in your navigation as you get closer to the control.



# MFL Knowledge Organiser

## KO. Yr7 Hair and eyes

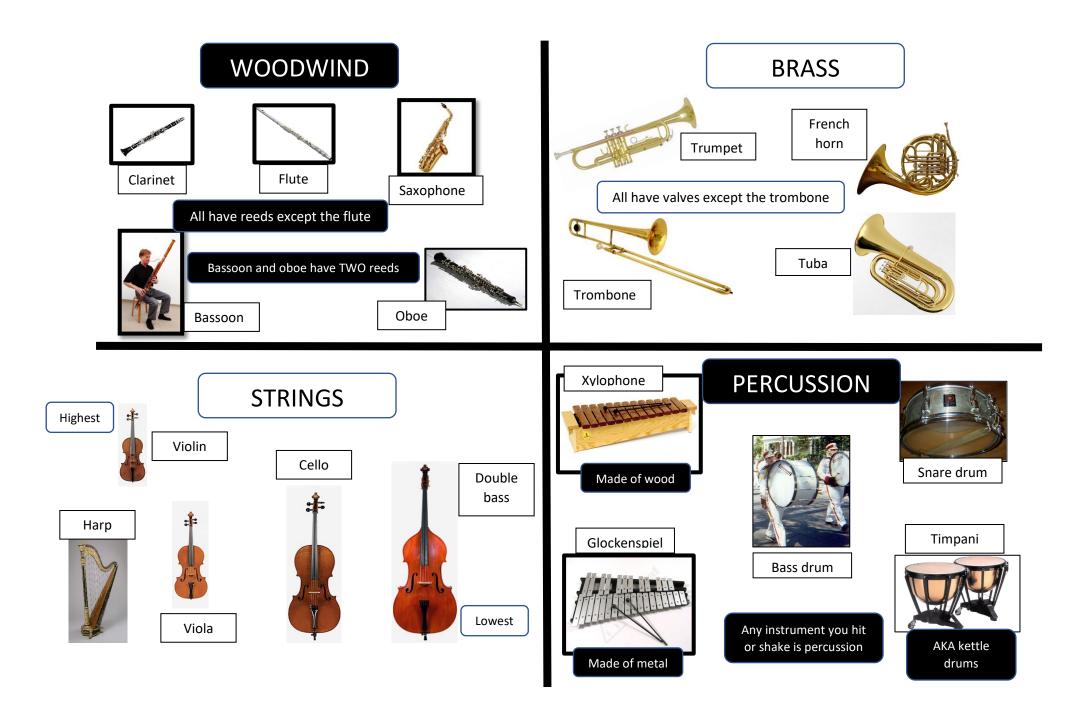
es-Present	Opinione & Propoune	<b>Adjectives</b>			
R = to have	<b>Opinions &amp; Pronouns</b>	Azul(es)	Blue		
Lhove	Me gusta Me gusta much	Marrón(es)	Brown		
I have	No me gusta	Verde(s)	Green		
You have		Gris(es)	Grey		
He/She/It has	Me encanta	Negro	Black		
We have		Liso	Straight		
vve nave	Connectives	Rizado	Curly		
You all have	• También= also	Ondulado	Wavy		
They have	• Y= and	Largo	Long		
	• Pero= but	Corto	Short		
R = to wear	Sin embargo = however	Media talla	Mid length		
l wear		Es calvo	He/she is bald		
You wear	• Porque = because				
He/She/It wears		Me gustaríá tener = I wou	ld like to have		
We wear	7 マン アメート	Tengo los ojos = I have eyes			
You all wear		Tengo el pelo = I have l Soy pelirojo = I am a red-h			
They wear					

|--|

TENER = to have		
Tengo	I have	
Tienes	You have	
Tiene	He/She/It has	
Tenemos	We have	
Tenéis	You all have	
Tienen	They have	

LLEVAR = to wear		
Llevo	l wear	
Llevas	You wear	
Lleva	He/She/It wears	
Llevamos	We wear	
Llevaís	You all wear	
Llevan	They wear	

### Year 7 MUSIC HT3 Knowledge Organiser



## Year 7 Design Knowledge Organiser



#### **Design Process**

		<b>•</b>
	Design Brief	A statement outlining what is to be designed and made.
00 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Specifications	A list of design criteria.
ĨŎ	Research	Sourcing information and inspiration to help with design work
- <u>`</u> Q́-	ldeas	A range of potential solutions to the Problem.
(F	Development	Further improving an idea.
	Final Design	A presentation drawing of chosen idea.
Ŷ	Manufacture	Making the final outcome.
	Evaluation	Reviewing strengths and weaknesses of final product and design work.

### Health and Safety

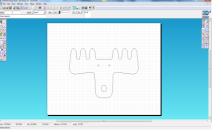


## **Pillar Drill**



Pillar drills are free standing machine tools used by engineers that use high powered motors to rotate drill bits at varying speed.

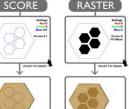




CAD stands for Computer aided design and refers to any design that is created through the use of computer software.

#### Laser Cutter





Laser cutting is a method of cutting shapes or designs into sheet metal or other structural materials.

Plywood

Sheet materials manufactured from layers or particles of wood. Reddish brown or white in colour. Layered in odd numbered sheets. Strong. Susceptible to splintering Used in sheds and cladding, furniture, flooring, boats (marine ply).

## Measure CLASSMATES SHATTER RESISTANT Measuring in millimetres is more accurate than measuring in centimetres. 1cm = 10mm

## Year 7 Design Knowledge Organiser



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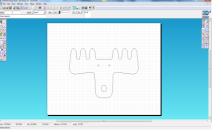


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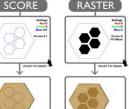




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## Year 7 Textiles Knowledge Organiser

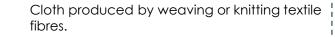


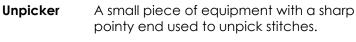
#### Equipment

A piece of metal with a point at one end and a hole or eye for thread at the other, used in sewing.

A piece of metal with a point at one end for holding fabric together.

Used for cutting fabric.





Chalk used to mark fabric.

Tailors Chalk

Needle

Pins

Sheers

Fabric



A strand of cotton, used in sewing or weaving.

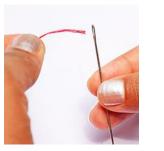
Pattern

A template used to cut out the fabric.

#### Health & Safety

Work slowly to avoid sticking yourself with the needle.

- Keep your eyes on your work.
- 3. Use the right tool for the job.
- 4. Store tools and equipment properly.
- 5. Cut with care.
- 6. Before you walk away, put things away!



Step 1 the needle in Hold non dominant vour hand and the thread dominant in vour hand.

### How to Thread a Needle

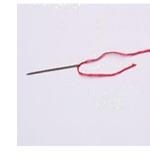


Step 2

Hold the needle in the one hand and take the eve of the needle closer to the tip of the thread in the other hand.



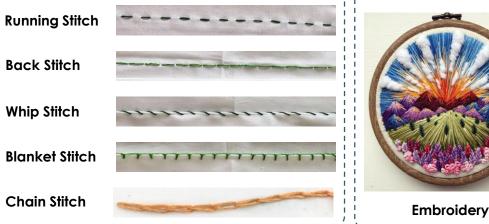
Keep pushing the needle further until the end of the thread emerges well enough through the other side of the eye. Pull the end of the thread out.



Step 4

Pull the end of the thread through the eye of the needle and tie of the end of the thread in a knot.

## Hand Sewing Stitches



#### Sewing Techniques



Appliqué

## Year 7 Textiles Knowledge Organiser

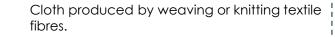


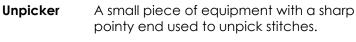
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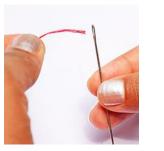
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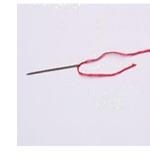


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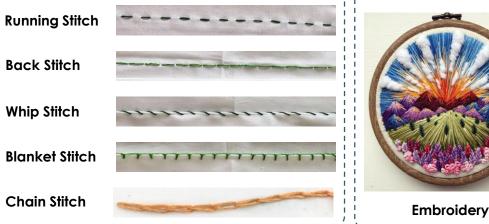
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