

# YEAR 9 — CONSTRUCTING IN 2D/3D...

## Constructions & congruency

@whisto\_maths

### What do I need to be able to do?

By the end of this unit you should be able to:

- Draw and measure angles
- Construct scale drawings
- Find locus of distance from points, lines, two lines
- Construct perpendiculars from points, lines, angles
- Identify congruence
- Identify congruent triangles

### Keywords

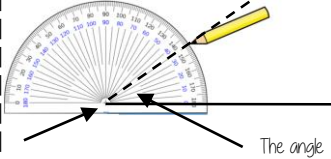
- Protractor:** piece of equipment used to measure and draw angles
- Locus:** set of points with a common property
- Equidistant:** the same distance
- Discorectangle:** (a stadium) — a rectangle with semi circles at either end
- Perpendicular:** lines that meet at  $90^\circ$
- Arc:** part of a curve
- Bisector:** a line that divides something into two equal parts
- Congruent:** the same shape and size

### Draw and measure angles

R

Draw a  $35^\circ$  angle

Make a mark at  $35^\circ$  with a pencil and join to the angle point (use a ruler)



The angle

Make sure the cross is at the end of the line (where you want the angle)

### Scale drawings

R

A picture of a car is drawn with a scale of 1:30

For every 1cm on my image is 30cm in real life

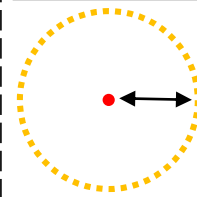
The car image is 10cm



Image: Real life  
1cm : 30cm  
10cm : 300cm

### Locus of a distance from a point

All points are equidistant (the same distance) from the fixed point in the middle



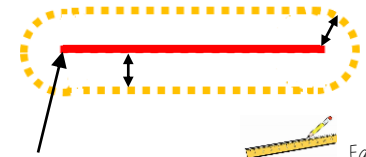
If the point is in the corner it can only make a quarter circle



Equipment needed  
The radius is the distance from the fixed point

### Locus of a distance from a straight line

All points are equidistant (the same distance) from line



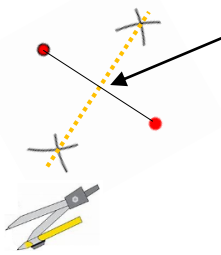
The ends of the line are fixed points



Equipment needed  
The line is straight so a ruler is used for the straight lines parallel to your original line

### Locus equidistant from two points

Also a perpendicular bisector  
Because if the points are joined this new line intersects it at a  $90^\circ$



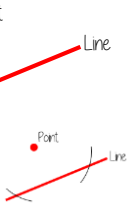
Join the intersections with a ruler.  
All points on this line are equidistant from both points



### Construct a perpendicular from a point



Use a compass and draw an arc that cuts the line. Use the point to place the compass



Keep the compass the same distance and now use your new points to make new intersecting arcs



Connecting the arcs makes the bisector

If P is a point on the line the steps are the same

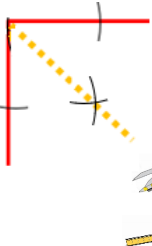
### Locus of a distance from two lines

Also an angle bisector  
This cuts the angle in half

From the angle vertex draw two arcs that cut the lines forming the angle

Keep the compass the same size and use the new arcs as centres to draw intersecting arcs in the middle

Join the vertex to the intersection

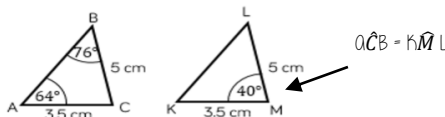


### Congruent figures

Congruent figures are identical in size and shape — they can be reflections or rotations of each other



Congruent shapes are identical — all corresponding sides and angles are the same size



Because all the angles are the same and  $AC=KM$   $BC=LM$  triangles ABC and KLM are congruent

### Congruent triangles

Side-side-side

All three sides on the triangle are the same size  
Two angles and the side connecting them are equal in two triangles

Angle-side-angle

Side-angle-side

Two sides and the angle in-between them are equal in two triangles (it will also mean the third side is the same size on both shapes)

Right angle-hypotenuse-side

The triangles both have a right angle, the hypotenuse and one side are the same

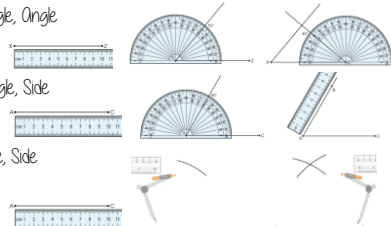
### Constructing Triangles

Link to steps → R

Side, Angle, Angle

Side, Angle, Side

Side, Side, Side



# YEAR 9 — REASONING WITH NUMBER... Numbers

@whisto\_maths

## What do I need to be able to do?

- By the end of this unit you should be able to:
- Identify integers, real and rational numbers
  - Work with directed number
  - Solve problems with number
  - Find HCF/ LCM
  - Add/ Subtract fractions
  - Multiply/ Divide fractions
  - Write numbers in standard form

## Keywords

- Integer:** a whole number that is positive or negative  
**Rational:** a number that can be made by dividing two integers  
**Irrational:** a number that cannot be made by dividing two integers  
**Inverse operation:** the operation that reverses the action  
**Quotient:** the result of a division  
**Product:** the result of a multiplication  
**Multiples:** found by multiplying any number by positive integers  
**Factor:** integers that multiply together to get another number

## Integers, real and rational numbers

Rational – root word: ratio

Real numbers:  $\frac{2}{3}$  stems from 2 |  $\frac{2}{3}$  of the whole

Irrational numbers:  $\sqrt{2}$  the solution is a decimal that never ends and does not repeat

The square root of a negative is not a real number and cannot be found

## HCF/LCM

1 is a common factor of all numbers

Common factors are factors two or more numbers share

HCF – Highest common factor

HCF of 18 and 30

18: 1, 2, 3, 6, 9, 18

30: 1, 2, 3, 5, 6, 10, 15, 30

HCF = 6

LCM – Lowest common multiple

LCM of 9 and 12

9: 9, 18, 27, 36, 45, 54

12: 12, 24, 36, 48, 60

LCM = 36

The first time their multiples match

## Standard form

Any number between 1 and less than 10  $\rightarrow A \times 10^n$   $\leftarrow$  Any integer

$$6 \times 10^5 + 8 \times 10^5$$

$$= 600000 + 800000$$

$$= 1400000$$

$$= 1.4 \times 10^6$$

$$(1.5 \times 10^5) \div (0.3 \times 10^3)$$

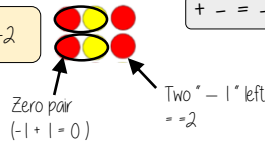
$$15 \div 0.3 \times 10^5 \div 10^3$$

$$= 5 \times 10^2$$

## Directed number

Addition

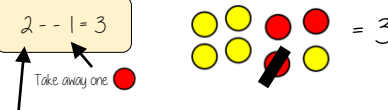
$$2 + -4 = -2$$



Subtraction

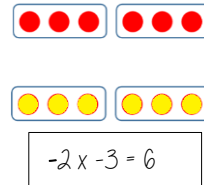
$$2 - -1 = 3$$

Representation for calculation



Start with the representation of 2

Multiplication



● = -1  
● = 1

The act of making counters into their negative is turning them over

Divisions are the inverse operations



$$a = 5$$

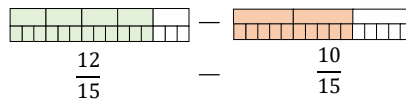
$$b = -4$$

Brackets around negative substitutions helps remove calculation errors

$$2a - b = 2 \times 5 - (-4) = 10 + 4 = 14$$

## Addition/ Subtraction of fractions

$$\frac{4}{5} - \frac{2}{3}$$



$$= \frac{2}{15}$$

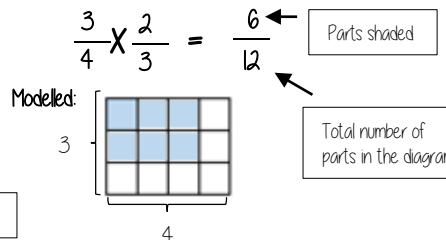
Use equivalent fractions to find a common multiple for both denominators

## Multiplication/ Division of fractions

$$\frac{3}{4} \times \frac{2}{3}$$

This many columns

This many rows



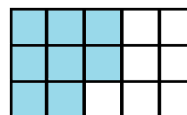
Remember to use reciprocals

$$2 \div \frac{3}{4}$$

$$2 \times \frac{4}{3}$$

Multiplying by a reciprocal gives the same outcome

Represented



$$= \frac{8}{9}$$

# YEAR 9 — REASONING WITH NUMBER... Using Percentages

@whisto\_maths

## What do I need to be able to do?

By the end of this unit you should be able to:

- Use FDP equivalence
- Calculate percentage increase and decrease
- Express percentage change
- Solve reverse percentage problems
- Solve percentage problems (calculator and non calculator problems)

## Keywords

**Percent:** parts per 100 — written using the % symbol

**Decimal:** a number in our base 10 number system. Numbers to the right of the decimal place are called decimals.

**Fraction:** a fraction represents how many parts of a whole value you have.

**Equivalent:** of equal value.

**Reduce:** to make smaller in value.

**Growth:** to increase/ to grow.

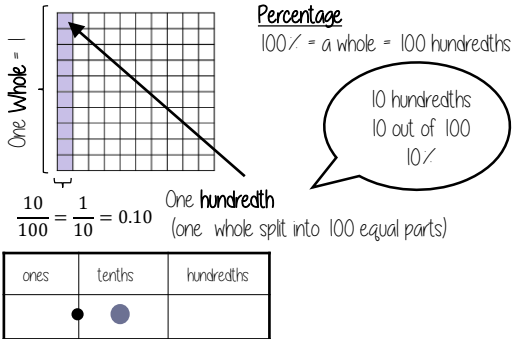
**Integer:** whole number, can be positive, negative or zero.

**Invest:** use money with the goal of it increasing in value over time (usually in a bank).

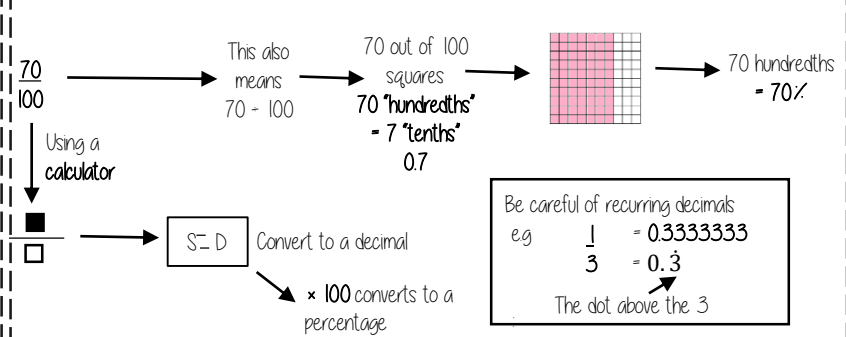
**Multiplier:** the number you are multiplying by

**Profit:** the income take away any expenses/ costs

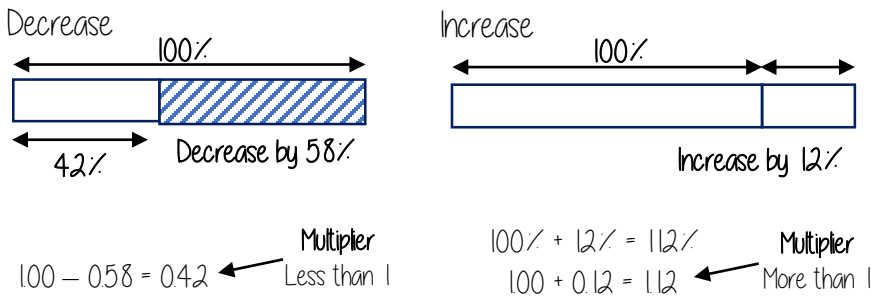
## FDP Equivalence



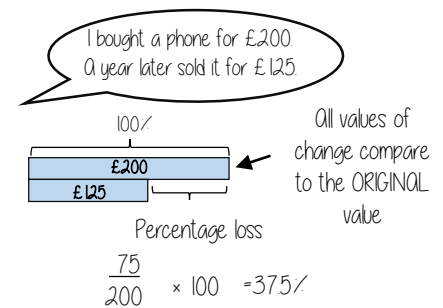
## Converting FDP



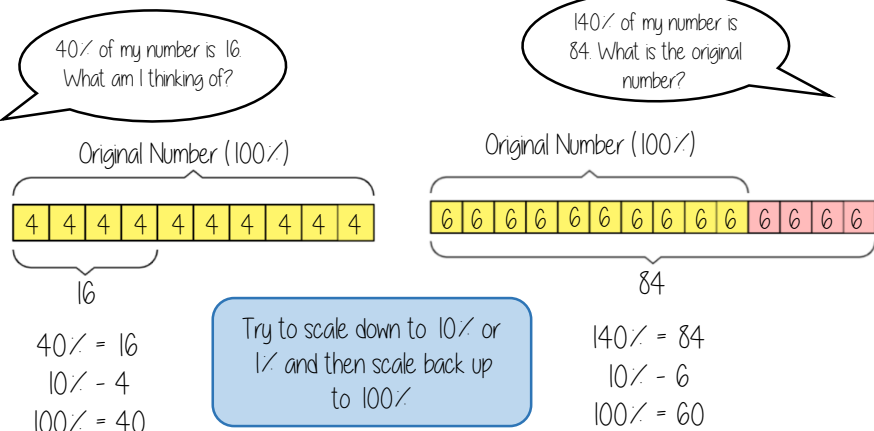
## Percentage Increase/ Decrease



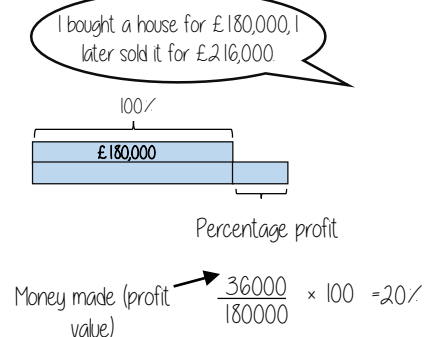
## Percentage change



## Reverse Percentages



$$\frac{\text{Difference in values}}{\text{Original value}} \times 100$$



# YEAR 9 — REASONING WITH NUMBER... Maths & Money

@whisto\_maths

## What do I need to be able to do?

By the end of this unit you should be able to:

- Solve problems with bills and bank statements
- Calculate simple interest
- Calculate compound interest
- Calculate wages and taxes
- Solve problems with exchange rates
- Solve unit pricing problems

## Keywords

- Credit:** money being placed into a bank account  
**Debit:** money that leaves a bank account  
**Balance:** the amount of money in a bank account  
**Expense:** a cost/ outgoing  
**Deposit:** an initial payment (often a way of securing an item you will later pay for)  
**Multiplier:** a number you are multiplying by (Multiplier more than 1 = increasing, less than 1 = decreasing)  
**Per Annum:** each year  
**Currency:** the type of money a country uses  
**Unitary:** one — the cost of one.

## Bills and Bank Statements

**Bills** — tell you the amount items cost and can show how much money you need to pay.

Some can include a total  
 Look for different units  
 (Is it in pence or pounds)

Menu	Price
Milk	89p
Tea	£1.50

## Bank Statements

Bank statement can have negative balances if the money spent is higher than the money coming into the account

Date	Description	Credit	Debit	Balance
19 <sup>th</sup> Sept	Salary	£1500		£1500
19 <sup>th</sup> Sept	Mortgage		£600	£900
25 <sup>th</sup> Sept	Bday Money	£15		£915

## Simple Interest

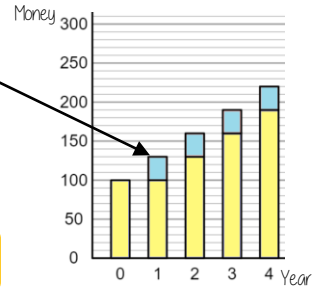
For each year of investment the interest remains the same

$$\frac{\text{Principal amount} \times \text{Interest Rate} \times \text{Years}}{100}$$

Principal amount is the amount invested in the account  
 e.g Invest £100 at 30% simple interest for 4 years

$$\frac{100 \times 30 \times 4}{100} = £120$$

This account earned **£120** interest.  
 At the end of year 4 they have **£220**



## Compound Interest

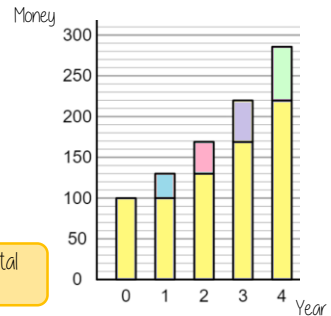
Interest is added to the current value of investment at the end of each year so the next year's interest is greater.

$$\text{Principal amount} \times \text{Multiplier}^{\text{Years}}$$

e.g Invest £100 at 30% compound interest for 4 years

$$100 \times 1.3^4 = £285.61$$

This account has **£285.61** in total at the end of the 4 years.



## Value Added Tax (VAT)

VAT is payable to the government by a business in the UK VAT is 20% and added to items that are bought.

Essential items such as food do not include VAT.

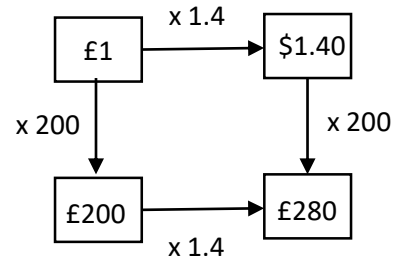
## Wages and Taxes

Salaries fall into tax brackets — which means they pay this much each month from their salary.

Taxable Income	Tax Rate
£12 501 to £50 000	20%
£50 001 to £150 000	40%
over £150 000	45%

Over time:  
 Time and a half — means 1.5 times their hourly rate  
 Double — 2 times their hourly rate

## Exchange Rates



When making estimates it is also useful to use estimates to check if our solution is reasonable.

Use inverse operations to reverse the exchange process

### Common Currencies

United Kingdom	£	Pounds
United States of America	\$	Dollars
Europe	€	Euros

## Unit Pricing

4 Oranges £1	5 cupcakes £1.20
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$$\begin{aligned} 4 = £1.00 & \div 2 & 5 = £1.20 & \div 5 \\ 2 = £0.50 & & & \\ 1 = £0.25 & \div 2 & 1 = £0.20 & \end{aligned}$$

Cost per Unit

To calculate unit per cost you divide by the cost.

Cupcakes are the best value as one item has the cheapest value

There is a directly proportional relationship between the cost and number of units.

# Year 9 Science Summer Term Knowledge Organiser – Genetics

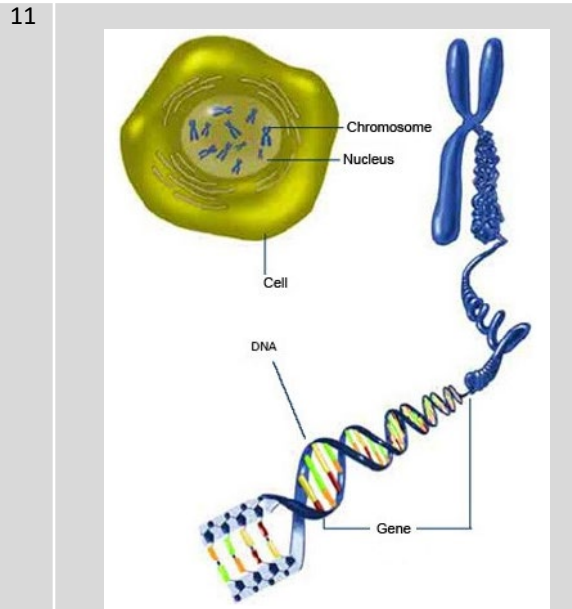
## Key Vocabulary

1	<b>Allele</b>	A version of a gene. <i>The mouse contained two <b>alleles</b> which both coded for white fur.</i>
2	<b>Amino Acid</b>	A monomer (single unit) of proteins. <i>A protein is made of a sequence of <b>amino acids</b>.</i>
3	<b>Base</b>	The variable part of a nucleotide. <i>The <b>bases</b> in DNA pair up to form a double helix structure.</i>
4	<b>Chromosome</b>	A section of DNA that contains many genes. <i>Human cells contain 23 pairs of <b>chromosomes</b>.</i>
5	<b>Clone</b>	An identical copy of an organism. <i>The two daughter cells made during mitosis are <b>clones</b>.</i>
6	<b>Daughter Cells</b>	New cells that are produced during cell division. <i>During mitosis, two <b>genetically identical daughter cells</b> are produced.</i>
7	<b>DNA</b>	A chemical substance which carries genetic information.

8 Meiosis  
The type of cell division by which gametes are produced.  
After meiosis, gametes have half the number of chromosomes.

9 Mitosis  
The type of cell division which results in two genetically identical daughter cells.  
The cells are dividing by mitosis.

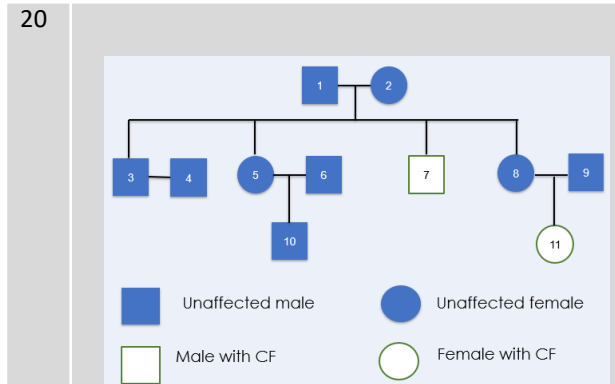
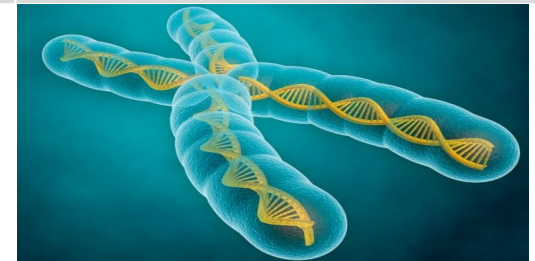
10 Protein  
A sequence of amino acids folded into a specific structure.



12 A gene is a section of a chromosome that codes for a particular protein.  
genes and chromosomes  
9. DNA is a polymer. It is made of two strands which form a double helix.  
10. The DNA is contained in structures called chromosomes.

## Variation

- 21 Differences between individuals of the same species.  
There was clear variation in height between pupils in different year groups.
- 22 Phenotype  
The expressed characteristic determined by the organism's genotype and its interaction with the environment.
- 23 Genotype  
The combination of alleles possessed for the same gene.  
The mouse's genotype for fur colour is Bb.
- 24 Mutation  
A change in the genetic material of an organism.  
There was a mutation in the DNA which altered the structure of the protein.





# Year 9 Science Summer Term Knowledge heating

## Key Vocabulary:

1	<b>Kinetic energy</b>	A store of energy that any object or particle has when moving. <i>Particles in a gas have the greatest store of <b>kinetic energy</b>.</i>
2	<b>Potential energy</b>	A store of energy related to the position of objects or particles. <i>Particles in a gas have the greatest store of <b>potential energy</b>.</i>
3	<b>Radiation</b>	Thermal transfer as a wave, by infrared radiation. <b>Radiation</b> is the method of thermal transfer that does not require particles.
4	<b>Specific Heat Capacity</b>	The energy required to heat 1 kg of a material by 1 °C. <i>The greater the <b>specific heat capacity</b> of a material, the more energy it will require to increase its temperature.</i>
5	<b>Specific Latent Heat</b>	The energy required to change the state of 1 kg of a material (with no change in temperature). <i>Each different material has a different <b>specific latent heat</b>.</i>
6	<b>Specific Latent Heat of Vaporisation</b>	<b>Specific latent heat of vaporisation</b> is used when calculating how much energy is required to turn 1 kg of water into steam.
7	<b>Temperature</b>	Related to the average kinetic energy of particles in a system. <b>Temperature</b> is measured in °C.
8.	<b>Vacuum</b>	An area where there are no particles. <i>Radiation can occur in a <b>vacuum</b> but conduction and convection cannot.</i>

## Internal Energy

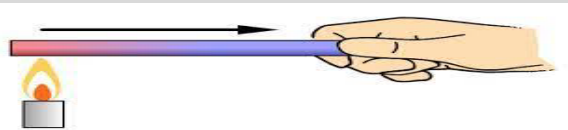
9.

Internal energy = kinetic energy of the particles in a system + potential energy of particles in a system. Particles in solids, liquids and gases have kinetic energy because they are always moving. The hotter a material is the faster its particles move and the larger the kinetic store of energy. Particles have potential energy because their motion keeps them separated. The further apart the particles the larger the potential energy. Particles in a gas have more internal energy because they have more kinetic energy and potential energy. Heating changes the energy stored in the system by increasing the energy of the particles that make up the system. Heating either raises the temperature of the system or produces a change of state. The thermal energy of an object depends on its mass, temperature and what it is made of.

10.

## Thermal transfers

Energy transfers from hotter substances to cooler substances. Temperature is a measure of the motion and energy of the particles. It is related to their kinetic energy. When thermal energy is transferred to an object by heating, its temperature depends on what the substance is made from, its mass and the amount of energy transferred. The more thermal energy transferred the higher the temperature unless there is a change in state. Conduction is thermal transfer by the vibration of particles. Metals are good thermal conductors because they contain delocalised (free) electrons which can move freely through the metal.

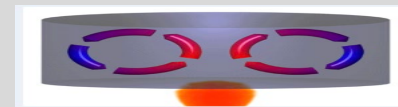


Convection is thermal transfer when particles in a heated fluid rise.

A fluid is a substance with no fixed shape – a liquid or a gas.

Liquids and gases expand when they are heated, the gaps between particles increases.

The liquid or gas becomes less dense and rises. The denser, colder fluid sinks, forming a convection current.



Radiation is the transfer of thermal energy as a wave.

Thermal transfer by radiation can occur in a vacuum as it does not require particles.

Some surfaces are better than others at absorbing and reflecting radiation. Shiny silvered surfaces are good at reflecting radiation.

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## Specific heat capacity

Specific heat capacity is the energy needed to raise the temperature of 1 kg of substance by 1 °C.

$$\Delta E = m c \Delta \theta$$

$\Delta E$  = energy change (J)

$m$  = mass (kg)

$c$  = specific heat capacity (J/kg °C)

$\Delta \theta$  = temperature change (°C)

Different materials require different amounts of energy to heat up or change state.

13

## Specific latent heat

Specific latent heat of a material is the energy needed to change the state of 1 kg of the substance with no change in temperature.

$$E = m L$$

$E$  = energy for a change of state (J)

$m$  = mass (kg)

$L$  = specific latent heat (J/kg)

Specific latent heat of fusion refers to a change of state from solid to liquid.

Specific latent heat of vaporisation refers to a change of state from liquid to vapour.

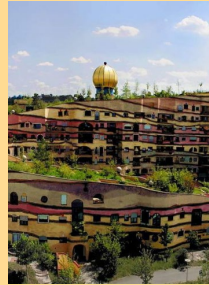
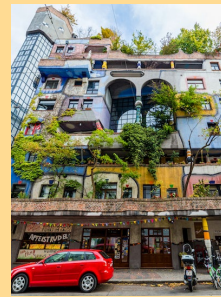
## Antoni Gaudi

Antoni Gaudi was an architect born in 1852. His works can be found in Barcelona, Spain. His building designs are inspired by nature. His masterpiece La Sagrada Familia will be completed in 2026, 100 years after his death. Many of Gaudi's buildings have Art Nouveau elements of design, for example Casa Batllo.



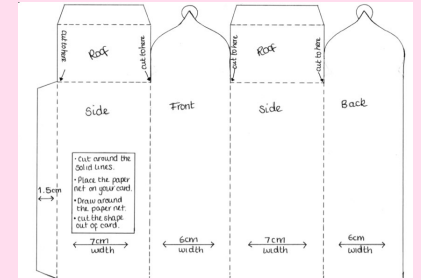
## Friedensreich Hundertwasser

Hundertwasser was an Austrian artist and architect who spent his whole career championing the curve of organic nature against the straight line. His buildings can be found in Austria and Germany. Hundertwasser was an environmental artist and used foliage to cover the roofs of buildings. Several trees grow from inside the rooms and out of windows.



## Making a Building Sculpture

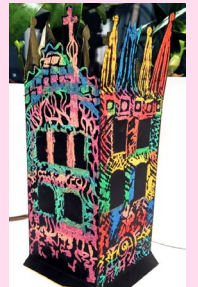
**Step 1** – Draw your chosen net onto cardboard which when folded will create a 3D model of a building.



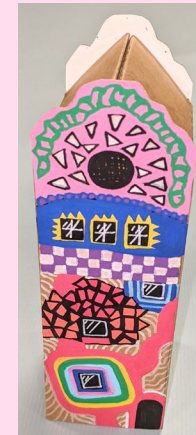
**Step 2** - Add windows and doors to your cardboard net.



**Step 3** – Using oil pastels, decorate the front, and one of the sides of your sculpture with the sgraffito technique. The patterns should be inspired by Gaudi or Hundertwasser.



**Step 4** – Decorate the back of your cardboard net using Posca paint pens. Use organic shapes and patterns inspired by Natural Forms.



**Step 5** - Add Graffiti lettering to the side of your sculpture using Posca pens. Add finishing touches such as a tiled roof and bricks.



## Keywords

**Architecture** - The profession of designing buildings and open areas, usually with some regard to aesthetic effect.

**Natural Form** – An object in nature in its original form, such as leaves.

**Organic**– Associated with natural things like plants. Flowing and not angular or straight.

**Line** – Defines shape, the outer edge of something.

**Mixed Media** – The use of two or more medias mixed together, like using watercolour and fine liner.

**Art Nouveau** – A movement that combines art and nature. It is characterized by its use of long, curved and organic lines often seen in architecture.



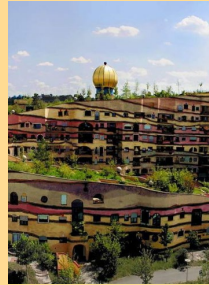
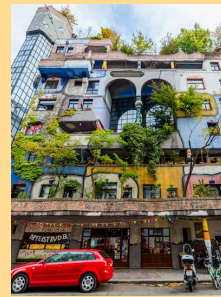
## Antoni Gaudi

Antoni Gaudi was an architect born in 1852. His works can be found in Barcelona, Spain. His building designs are inspired by nature. His masterpiece La Sagrada Familia will be completed in 2026, 100 years after his death. Many of Gaudi's buildings have Art Nouveau elements of design, for example Casa Batllo.



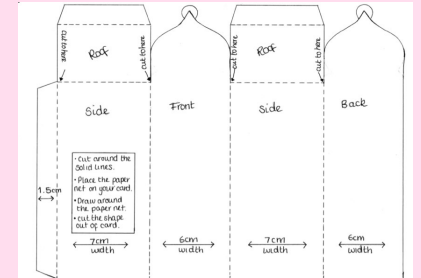
## Friedensreich Hundertwasser

Hundertwasser was an Austrian artist and architect who spent his whole career championing the curve of organic nature against the straight line. His buildings can be found in Austria and Germany. Hundertwasser was an environmental artist and used foliage to cover the roofs of buildings. Several trees grow from inside the rooms and out of windows.

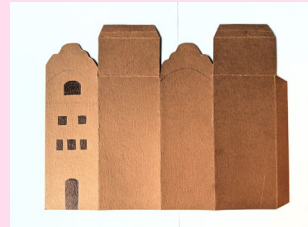


## Making a Building Sculpture

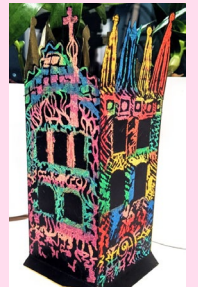
**Step 1** – Draw your chosen net onto cardboard which when folded will create a 3D model of a building.



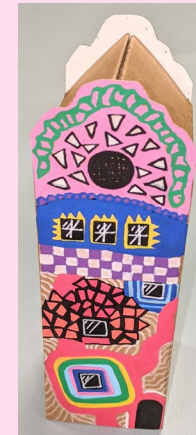
**Step 2** - Add windows and doors to your cardboard net.



**Step 3** – Using oil pastels, decorate the front, and one of the sides of your sculpture with the sgraffito technique. The patterns should be inspired by Gaudi or Hundertwasser.



**Step 4** – Decorate the back of your cardboard net using Posca paint pens. Use organic shapes and patterns inspired by Natural Forms.



**Step 5** - Add Graffiti lettering to the side of your sculpture using Posca pens. Add finishing touches such as a tiled roof and bricks.



## Keywords

**Architecture** - The profession of designing buildings and open areas, usually with some regard to aesthetic effect.

**Natural Form** – An object in nature in its original form, such as leaves.

**Organic**– Associated with natural things like plants. Flowing and not angular or straight.

**Line** – Defines shape, the outer edge of something.

**Mixed Media** – The use of two or more medias mixed together, like using watercolour and fine liner.

**Art Nouveau** – A movement that combines art and nature. It is characterized by its use of long, curved and organic lines often seen in architecture.



# Year 9 Subject Term Knowledge Organiser: Business Studies

## Topic 1.1 Enterprise and Entrepreneurship

### An Entrepreneur

Someone that has a business idea and then takes the risk to start their own business.

### Famous Entrepreneurs

- Steve Jobs – Apple
- Mark Zuckerberg – Facebook
- Kylie Jenner – Kylie Cosmetics
- Richard Branson – Virgin

### Key Words

**Independence** = making your own decisions

**Lack of security** = not having enough money to pay your bills

**Gap in the market** = no competition

**Obsolete** = no one wants it anymore

### Ways an entrepreneur might identify a new business idea?

- original ideas – *completely new idea*
- adapting existing products/services/ideas – *make it better*

### An original idea

- + no competition = can charge a higher price
- Expensive to create as will have to do research to see if people want the idea

### Adapt an existing idea

- + You know that people already like it
- Not original so you have competition

### What is a Dynamic Business?

A business that responds to what customers want

### Why new business ideas come about:

- changes in technology
- changes in what consumers want
- products and services becoming obsolete (don't need it anymore e.g. CD player).

### Why must a business be dynamic?

To keep customers happy = so they won't go to competitors = more repeat purchase = more sales and Profit

### Why must a business keep up with changes in consumer demand?

Otherwise customers won't be happy/satisfied = they will go to your competitors = less sales and profit

### Risk: - *reduced by carrying out market research*

- Business Failure
- Financial loss
- Lack of Security (*no guaranteed pay check*)
- **Reward** (*also reason why you would set up your own business*): Business Success
- Profit
- Independence (being your own boss)

### Added Value

- Unique selling Point
- Quality
- Branding
- Improved Product Design
- Convenience

# Year 9 PE Knowledge Organiser- Badminton

Key Words	Description	Coaching Points
Drive	A fast and flat shot that travels horizontally over the net. It can be played on both forehand and backhand sides. The drive is an attacking shot that is usually played from the sides of the court when the shuttle has fallen too low for it to be returned with a smash.	Forehand : Use Panhandle grip. Backhand : Use the traditional backhand grip.  The drive is a simple shot to learn because it doesn't require a lot of movement. A drive is nothing more than a quick flick of the wrist with your forearm providing force and guidance. Make sure you hit the shuttlecock as soon as you can. This means that if a shot is coming straight at you, take a step forward as you hit it to provide extra power. Also, the sooner you return a shot, the less time your opponent has to react.
Flick Serve	The flick serve is also played upward but much more shallowly than the high serve. Idea is to deprive the opponent of time and force them to hit shuttle when it is behind their body. Flick serves are used more frequently in doubles.	Appear as though you are performing a low serve. Then as you are bringing your racket head forward increase the speed and angle of trajectory.
Drive Serve	The drive serve is played fast and flat towards the receivers back court, passing low over the net. Idea is to force a mishit of your opponent by catching them unaware. The drive serve is a gamble because if your opponent reacts fast you are likely to lose point as you will be out of position / unable to respond to shot. As a result professional players will very rarely use this serve. Drive serves are favoured more in doubles than singles due to the opponent generally standing nearer the net.	Use a short sharp swing with a rebound action, stop racket head after impact. Tighten grip on racket to achieve more power.

Forehand Drive



## Effects of exercise

Short term	Long term
Rise in muscle temperature Blood temperature rises The blood vessels near the skin open to allow heat to be lost	Muscles get bigger (Hypertrophy) Increased number of capillaries in muscles Increased oxygen delivered to and carbon dioxide removed from the body

## Components of fitness

Component of fitness	Definition	Example of use in the game
Reaction Time	How fast a person can respond to a stimuli.	Players will need good reactions to respond to a smash to successfully return it.
Speed	Is the maximum rate at which an individual is able to perform a movement or cover a distance in a period of time.	Speed is needed to quickly move around the court and return the shuttle. Especially when responding to clears and drop shots.



# Year 10 HT3 Drama Knowledge Organiser

## Summary of topic

They must understand the GCSE requirements of the devising plays unit and understand what constitutes successful devised work



## Skills & Definitions

**Ensemble** – Collaborated group performance.

**Characterisation** – The creating, development and performance of a created character.

**Improvisation** – Spontaneous acting and suggestions that further develop a performance.

**Devised** – Original created performance material, often using a stimulus.

**Stimuli** – The starting point set by exam board e.g. picture, quote, word or song. You chose one.

**Practitioner** – Brecht or Artaud and how they influenced the performance.

**Brecht** – Famous for Political and Epic Theatre. (See practitioner knowledge organiser). Made the audience think and bring real change.

**Artaud** – Famous for Theatre of Cruelty (See practitioner knowledge organiser). Made the audience feel uncomfortable.

**Genre** – Physical theatre is NOT a practitioner, it is a STYLE of drama focused upon storytelling using movement.

**Techniques** – The key skills which are relevant to the practitioner or genre (see practitioner knowledge organiser).

**Final performance** – The end performance of the piece.

**Rehearsal** – The process of creating and developing your piece of theatre

**Monologue** – A one person speech in character. Often around 2 minutes in length.

## Aims of the topic

To use given stimuli to create and develop a devised piece of theatre

*'Life itself is the most wonderful fairy-tale'* – Hans Christian Anderson

### Devising Rules

- Every actor should have a monologue that is at least 90 seconds long and everyone should have an equal part.
- Divide the work up evenly – script writing (everyone write/plan their own scene), sourcing costume, planning technical theatre (staging, music, lights)
- Help each other out – but only when your own work is done. Even though this is a group project, you still get marked individually.
- Find an idea that every person is happy with and don't rule anything out.
- Try to get it on its feet early – the best ideas come from when you try to act something out, not sit there discussing it.

## **Devising Plays Knowledge Organiser**

### **Y10 GCSE**

### Assessment & Rehearsal Tips

- You will be offered 4 pieces of stimuli given to us by the exam board. 1 song, 1 quote, 1 phrase and 1 picture.
- In your given groups, you will generate ideas for each stimuli
- You will then decide on a stimuli and an idea. Then you will decide on a practitioner to use for your idea
- In your groups you will create a piece of drama around your idea, linked to the stimuli and using practitioner techniques
- Try everything – even if something doesn't work, you may discover something useful.

*What's the point of having a voice if you're gonna be silent in those moments you shouldn't be?*  
– The Hate U Give by Angie Thomas



*'Superheroes'* – The Script



## Knowledge Organiser Year 9 Drama

### DNA by Dennis Kelly


You need to KNOW this to include in your answers.

'Is it right to sacrifice the individual for the many? This for me is the central question in the play' Dennis Kelly

#### The plot.

DNA by Dennis Kelly is about a group of teenagers, who could be described as a 'gang', who have accidentally killed one of their classmates. When they realise their terrible mistake, they try to cover it up, but inadvertently implicate an innocent man in the process. At each moment when they could come clean, the group instead weaves a darker, more complex web of lies.

#### The Original Staging



**PRODUCTION FACTS**

- DNA was first written by Dennis Kelly for the National Theatre Connections Programme in 2007.
- It was performed in the Cottesloe at the National Theatre, London.
- It was directed by Paul Miller
- Set, Costume and Video Design by Simon Daw.
- The lighting was designed by Paule Constable.
- Sound Designer Rich Walsh

#### Original staging and style

DNA was originally staged in 2007 at The National Theatre, in **Proscenium Arch staging**. The locations were conveyed through **Projections across a bare stage** and the street/field/wood could be anywhere in Britain. The year could be any year.

The play was written with the intention that it could be interpreted or staged in different ways leaving it up to the director to consider their own artistic intentions. Although the **acting is naturalistic** the set doesn't have to be and its fast transitions between scenes to keep the tension will need to be considered with any choice of set or staging. The gender of the characters is also left up to the director and are easily interchangeable.

**Use of colour** – the colour blue was prominent creating a cold tense atmosphere. The school uniform ties were blue and the plastic bag was blue.

**Costume** – school uniform but each character wore a jacket or hoody to create an individual image, the ties were loosened. Adam's shirt was muddied and bloodied.

**Space** – the grey stage remained bare and if they sat, they sat on the floor. The focus was on the dialogue and the characters listening to the instructions. The acting was stripped down and there was strength in the stillness and the space between the characters.

**Transitions** – the street scene was created by an isolated strip of light downstage. The transitions were swift and stylised movements were kept to a minimum getting character from A to B. SFX were used to show the passing of time, similar to a 'whoosh' sound.

#### The structure

It has been constructed with a **cyclical narrative**, in three different locations.

#### A street, a field, a wood.

There is a pattern to the sequence, Jan and Mark introduce the problem of that particular section, then it's Leah and Phil before moving onto to the wood where everyone is present and the problem is solved. **The structure is broken in the final section when it is just a street, then a field.**

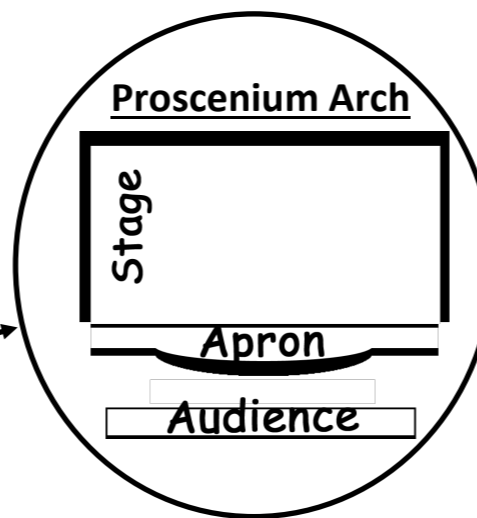
#### Themes

**Bullying** – the most obvious character that is bullied is Adam which happens before the beginning of the play and seemingly has caused his death. However, it is worth considering who the main bullies are and what types e.g. verbal, mental and physical.

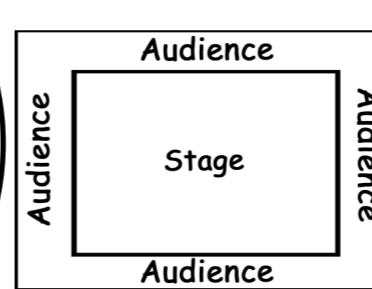
**Gangs** – Adam is not only desperate to be part of the gang but consider what the others are prepared to do to remain part of the gang.

**Power** – there are numerous power struggles within the play and it shifts throughout. It is Cathy that ultimately takes on the role as gang leader in the end, we should consider why?

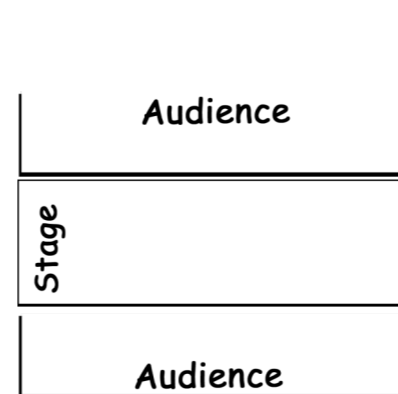
Other themes are **Responsibility, Violence, Fear and Friendship.**



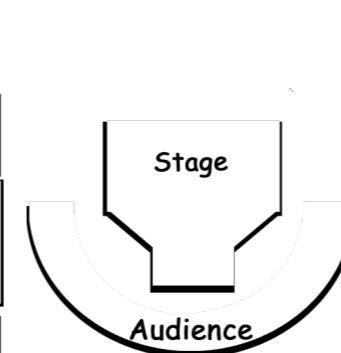
#### Theatre in a Round



#### Traverse



#### Thrust / Arena



#### Characters

**Mark and Jan** act as narrators who explain what's happening. They are always together and help in the cover up.

**Leah** is a moral character who worries about the groups actions. She is insecure and seeks Phil's attention.

**Phil** is the groups leader for most of the play. He's quiet, emotionless and manipulative.

**John Tate** starts as the group leader but his authority is weak and he leaves early on in the play.

**Danny** is a selfish character who is more worried about becoming a dentist than Adam's well being. Richard seems unhappy about the cover-up but he goes along with it. He challenged John Tate's leadership.

**Cathy** is violent and remorseless about Adam's death. She helps to kill Adam after he reappears.

**Lou** worries about the group getting caught. she follows whoever is in charge.

**Brian** is the weakest group member. He's bullied into covering up Adam's death and he suffers a mental breakdown as a result.

**Adam** is bullied by the group and thought to be dead. He turns out ot be alive but Phil has him killed.

What you need to be able to do

Explain how meaning is conveyed

Explain how **an actor** conveys meaning on stage through their use of...

## Vocals

**Volume**— Loud / Soft / Booming and Powerful / Ear piercing / Nervously quiet, conveying...

**Pace**— Slow / Moderate / fast / Hurried / Alarming / Casual / Sluggish / Deliberate / Fearful / Frantic / Rapid, which creates an atmosphere of...

**Pause**— which marks or highlights...

**Tone**— aggressive / questioning / intense / worried / impatient / Anxious, suggests mood and intention.

**Rhythm**— Unfinished / Short sharp / Erratic rhythms, variation of rhythms expressing her rollercoaster of emotions.

**Pitch**— high / low, to indicate...

**Accent**— Upper/Lower class / Regional

**Emphasis**— making certain words stand out and can change their meaning.

**Intonation**— Rise and fall of the voice helps us to say what we mean.

His/her speech is · erratic · stuttering · varying in pace · attention seeking, · trying to reassure herself · revealing her panic.

## Movement

**Body language**

**Gesture**

**Mime**

**Physical Theatre**— representing / symbolises

**Slow and Steady gestures** which communicate...

Over exaggerated hand gestures moving from hips to head to folded highlighting his/her...

Pacing across the stage creating an atmosphere of...

His/her movement / gestures are · threatening · fearful · friendly · sudden · disturbingly in a tentative manner.

## Interaction

Repetition of lines not expecting an answer

Isolation from the group suggesting...

Sitting closely for reassurance

Silence and only interacting when necessary

Sudden bursts of physical violence make others wary of her.

Needing to fill the space with words.

Lack of eye contact to suggest...

## Set design

Entrances and exits

Rostra

Flats - static / suspended or moveable

Backdrop

Levels

Suspended

Projection

Sightlines

Sloping

Rotating

Colours

Naturalistic

Non-Naturalistic

Symbols - Dressed with - leaves - drinks crate

Symbols of youth, den, meeting place, proximity to city

Hidden, dark secret

## Lighting LFX

**Intense** — Bright / Dim / Focussed / wash covering larger area.

**Flashing / Chase** — A chase is a sequenced set of flashing lights

**Colour**— can be altered by using gels, helps inform mood or can be used to symbolise something.

**GOBO**— creates shapes / patterns for the lights.

Types of light

**Fresnel** - soft edge effect

**Flood** - covers larger areas, can create washes

**Parcan** - good for strong saturated colours

**Profile spot** - Fixed, hard edged spot light

**Follow spot** - Moveable spot light

Position - Overhead / side / floor / on stage / rear

Explain what decisions **a designer** may make in order to convey meaning through **Lighting/sound/set design and costume.**

## Sound SFX

Sound to mark or Music to highlight transition

Live or recorded sound

Volume

Intense

Calm

Contrasts

**Fast paced** creating tension, setting a mood of...

## Costume

Describe

Head -> Toe

Hat -> Shoe

Makeup

Accessories which indicate...

Bags, scarfs, headband, cap etc...

Colour / Logo / Uniform

State— smart / scruffy / trendy / unkept

This highlights her status...

Conveying her need to fit in...

Portraying her individual nature and desire to stand out.

## Motivation

A characters reasons for doing what they are doing. This can relate to their background and how this effects their actions or it may be more in the moment. It also is about how the character is feeling at that moment and what they are perhaps thinking but not saying or revealing .

He wants to exert his power over them and take control in order to protect them from the consequences.

She needs to be loved/liked

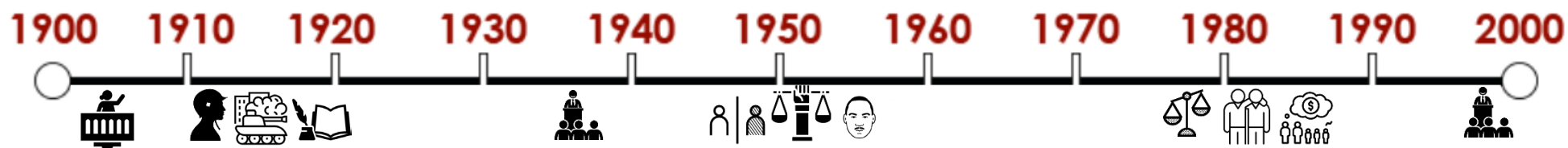
She yearns for affection

She won't show any emotion and doesn't appear to have any.

The exam questions will ask you to **consider your role as a director**. You need to consider how to prepare the actor for the role they will play in performance. Be prepared **to explain how rehearsal techniques prepare actors for their roles and help them to understand the characters motivation and relationships with the other characters. E.g.**

- Hot seating/Thought tracking/Freeze frames
- Improvising outside the text/Vocal games
- Spatial games to consider proxemics and interactions.

1. Naturalism	2. Rehearsal
3. Stanislavski	4. Exploration
5. Technical Theatre	6. Analysis and evaluation
7. Make-up	
8. Set-design	



<b>Adjective:</b>	A word which describes a noun
<b>Adverb:</b>	A word which describes a verb
<b>Analytical Verb:</b>	Language to use in your analysis: the writer <i>suggests</i> / indicates / implies / emphasises
<b>Anaphora:</b>	Repetition of the same phrase at the beginning of two or more sentence or clauses
<b>Audience:</b>	Who the text is specifically aimed at
<b>Authorial Intent:</b>	The writer's goals or ambitions for how readers will respond and react to the text
<b>Connotations:</b>	The links or associations you have with a word
<b>Cyclical Structure:</b>	When the end of a text mirrors or is similar to the beginning of the text
<b>Epiphora:</b>	Repetition of the same phrase at the end of two or more sentence or clauses
<b>Ethos:</b>	A persuasive device: the use of your character, credibility and experience to persuade someone
<b>Exclamatory:</b>	A sentence ending in an exclamation mark
<b>Imperative:</b>	A word or sentence giving an instruction or a command
<b>Juxtaposition:</b>	Opposing or contrasting ideas nearby each other in a text
<b>Logos:</b>	A persuasive device: the use of logic or facts to persuade someone
<b>Metaphor:</b>	Figurative language: making a comparison saying something <i>is</i> something else (e.g. the moon is a ship in the sky)
<b>Noun:</b>	The name of a person, place or thing (concrete noun: something you can see/touch; abstract noun: an idea/feeling)
<b>Pararhyme:</b>	A half rhyme, where the vowels don't rhyme but the rest of the word does (e.g. 'killed' and 'cold')
<b>Pathos:</b>	A persuasive device: the use of feelings or emotion to persuade someone
<b>Personification:</b>	Giving an object or thing human qualities
<b>Pronoun:</b>	A word which replaces a noun (e.g. I, she, he, it, they, we, you)
<b>Purpose:</b>	Why the text has been written; links to authorial intent
<b>Refrain:</b>	A repeated line in poetry, often repeated at the same point in each stanza
<b>Rhetoric:</b>	The art of crafting language to create a powerful effect
<b>Simile:</b>	Figurative language: making a comparison by saying something <i>is like</i> something else (e.g. the stars are <i>like</i> diamonds)
<b>Stanza:</b>	The term for each section (like a verse/paragraph) in a poem
<b>Tone:</b>	The mood or emotion of the text
<b>Verb:</b>	An action or a doing word



# Year 9 Subject Term Knowledge Organiser

## Fitness

### Knowledge

Develop an understanding of the benefits of fitness testing. And own ability in comparison to national averages.

### Skills

Understand the benefits of fitness testing, Multi stage Fitness Test, 12 minute cooper run, press up/sit up tests

### Key Words

**Health** – A state of physical, mental and social well being, not merely being absent from illness

**Fitness** – Fit for purpose or the ability to meet the demands of your environment

**Intensity** = how hard you are exerting yourself

## Components of Fitness

**Agility** – Ability to change direction quickly and precisely without losing balance

**Co-ordination** – The ability of parts of the body to work together to move smoothly and accurately

**Strength** – Maximum force that can be generated by a muscle or group of muscles

**Cardiovascular endurance** - Ability of your heart and lungs to efficiently deliver oxygen to working muscles during exercise

## Fitness

### Knowledge

Develop an understanding of fitness leading and programming

### Skills

Understand how to improve fitness levels by using FITT, frequency, intensity, Time and type

Introduce training zones

The different type of training sessions, able to plan a suitable training session, including below and speedwork, HIIT, flexibility, mobility and plyometrics

ZONE	% OF MAX HR	EXERTION LEVEL	FITNESS GOAL
5	90 - 100%	MAX	FOR FIT ATHLETES IN VERY BRIEF DURATIONS, DEVELOP FAST-TWITCH MUSCLE FIBERS TO BOOST SPRINT SPEED
4	80 - 90%	HARD	INCREASE ANAEROBIC THRESHOLD AND MAX CAPACITY FOR SHORTER EFFORTS
3	70 - 80%	MODERATE	IMPROVE AEROBIC FITNESS AND MUSCLE STRENGTH
2	60 - 70%	LIGHT	BUILD BASIC ENDURANCE, FAT BURNING, SUSTAINABLE FOR LONG PERIODS OF EXERCISE
1	50 - 60%	VERY LIGHT	WARM UP, COOL DOWN, AND ACTIVE RECOVERY
0	< 50%	REST	NO MEANINGFUL STRAIN ON THE BODY

## TRAINING METHODS

Different training methods are suited to different sports and activities. As a result, sports performers must select training methods that suit, or can be adapted, to their chosen activity.

<p><b>CONTINUOUS</b></p>  <p>Involves long periods of moderate exercise without rest. Work for at least 20 minutes at 60-80% of maximum heart rate. Suitable for endurance events such as long-distance running or cycling.</p> <ul style="list-style-type: none"> <li>+ Improves aerobic fitness, cardiovascular fitness and muscular endurance</li> <li>+ Easy to monitor work rate and progression</li> <li>+ Limited equipment or facilities required</li> </ul> <ul style="list-style-type: none"> <li>- Does not develop other components of fitness</li> <li>- Time consuming</li> <li>- Can become repetitive and boring</li> </ul>	<p><b>CIRCUIT</b></p>  <p>A series of exercises performed in a circuit that can be adapted to suit most sports. Excellent for general fitness and can also incorporate skills, such as passing or dribbling a ball in basketball or football.</p> <ul style="list-style-type: none"> <li>+ Develops both aerobic and anaerobic systems</li> <li>+ Can be adapted to suit specific sports and improve other components of fitness</li> <li>+ Easy to monitor work rate and progression</li> </ul> <ul style="list-style-type: none"> <li>- Can require lots of equipment and time to set up</li> <li>- Requires a lot of space</li> <li>- Can be difficult to maintain work rate</li> </ul>
<p><b>FARTLEK (SPEED PLAY)</b></p>  <p>A continuous workout involving changes in speed and/or terrain. Suitable for sports such as netball, rugby, hockey and basketball involving constant changes in intensity.</p> <ul style="list-style-type: none"> <li>+ Develops both aerobic and anaerobic systems</li> <li>+ Improves cardiovascular fitness and muscular endurance</li> <li>+ Can be adapted to suit most sports and improve other components of fitness</li> </ul> <ul style="list-style-type: none"> <li>- Can become repetitive and boring</li> <li>- Difficult to monitor work rate and progression</li> <li>- Can be difficult to maintain work rate</li> </ul>	<p><b>WEIGHT TRAINING</b></p>  <p>A type of interval training that involves using weights as a form of resistance. Can be used to aid recovery after injury. Suitable for all activities especially those involving power and strength, such as shot put, sprinting, rugby and wrestling.</p> <ul style="list-style-type: none"> <li>+ Improves muscular strength, endurance, size and power</li> <li>+ High reps, low weight for muscular endurance</li> <li>+ Low reps, high weight for strength and power</li> <li>+ Easy to monitor work rate and progression</li> </ul> <ul style="list-style-type: none"> <li>- Requires specialist equipment</li> <li>- Can cause serious injury if incorrect techniques are used</li> </ul>
<p><b>INTERVAL</b></p>  <p>Involves alternating periods of work and rest. Suitable for sports such as basketball, rugby, hockey and netball, which have alternating period of intense effort and rest.</p> <ul style="list-style-type: none"> <li>+ Develops both aerobic and anaerobic systems</li> <li>+ Can be adapted to suit specific sports and improve other components of fitness</li> <li>+ Easy to monitor work rate and progression</li> </ul> <ul style="list-style-type: none"> <li>- Can become repetitive and boring</li> <li>- Can be difficult to maintain work rate</li> </ul>	<p><b>CROSS TRAINING</b></p>  <p>Combines different training methods to create unique and tailored training programmes. Suitable for sports that require a variety of components of physical fitness, such as triathlons and decathlons.</p> <ul style="list-style-type: none"> <li>+ Training programmes can be tailored to the specific needs of the performer</li> <li>+ Provides variety</li> <li>+ Improves a variety of components of physical fitness</li> </ul> <ul style="list-style-type: none"> <li>- Lots of different exercises to learn</li> <li>- Need to ensure rest is incorporated</li> </ul>

# Year 9 Subject Term Knowledge Organiser

## Football

### Knowledge

Develop an understanding of the techniques of passing, throwing, using volleys half volleys where appropriate

### Skills

Able to kick/head the ball confidently using the correct techniques and when to use appropriately

Knowing how to do a defensive header and an attacking header

## Football

### Knowledge

Develop an understanding of the wider game regards tactic and formations

### Skills

Lead on set plays/positions from freekicks and corners, develop tactics from different opponents. Know when to use the set play

Able to suggest different formations with reasoning able to play in multiple positions using the off side rule.

### Football Key Skills

#### Dribbling

Dribbling allows you to move the ball around the field without losing possession. Keep the ball close to your feet at all times, when running with it. Use the inside of your foot to control the ball when moving. Don't look down when running with the ball. Keep your head up.

#### Passing

Non-kicking foot is closest to the ball. Kicking foot needs to be at the right angle to the ball. Body over the ball. Eyes focused on the ball and arms are used for balance.

#### Shooting

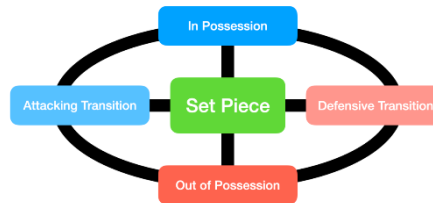
Non kicking foot needs to be next to the ball and player needs to keep their body balanced with their head slightly over the top of the ball. Contact the ball either with the side of the foot (placement of ball) top of the foot (to generate power) Both legs need to be flexed but when striking the ball, kicking foot needs to be fully extended on the follow through. For accuracy, aim between the goalkeeper and the posts.

#### Heading

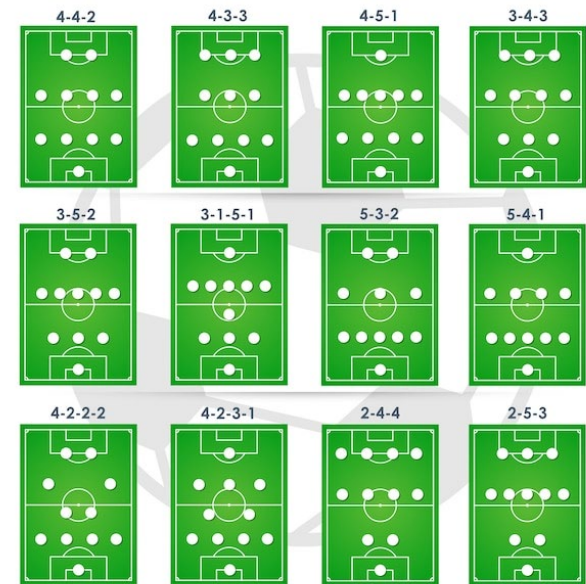
The forehead is used to contact the ball. Eye must be focused on the ball. Meet the ball your head by moving your feet or jumping to gain the extra height. Do not wait for the ball to hit your forehead.

#### Chest

Used when the ball is played in the air, to bring it down on the floor. Player needs to align himself with the ball. Roll their shoulders back to create a bigger surface to control the ball bend your knees to get the ball onto the floor.



### Where Is The Set Piece?



### Key Words

**Decision making**, the choices regarding the use of playing methods, the choice of skill, where to move.

**Formation**. The position of players of the pitch

**Set play** – a play normally after a stoppage where players have a pre-prepared move to outwit the opponents

**Offside**. Any part of the attacking player closer to the goal line when the ball is played, with no defenders other than goal keeper is deemed offside



## Tenses

### REGULAR PRESENT TENSE

	-ER	-IR	-RE
Je	e	is	s
Tu	es	is	s
Il/Elle/On	e	it	
Nous	ons	issons	ons
Vous	ez	issez	ez
Ils/Elles	ent	issent	ent

Habiter = to live

J'habite	I live
Tu habites	You live
Il/Elle habite	He/She/It lives
Nous habitons	We live
Vous habitez	You all live
Ils/Elles habitent	They live

## Opinions & Pronouns

J'aime

J'aime beaucoup

Je n'aime pas

Je n'aime pas du tout

J'adore



- Aussi= also

- Et= and

- Mais= but

- Ce pendant = however

- Parce que = because

## Connectives



Translate it!

## Adjectives

Belle/Beau	<i>Beautiful</i>
Petit(e)	<i>Small</i>
Grand(e)	<i>Big</i>
Vivant	<i>Lively</i>
Elegant	<i>Elegant</i>
Luxueux	<i>Luxurious</i>
Moderne	<i>Modern</i>
Vieux	<i>Old</i>

Les banlieues	outskirts
La zone	area
La rue	street
Le campagne	countryside
Le centre	centre
La ville	town/city
La côte	coast
La village	village
La région	region





### Animal Adaptations

Animals have adapted physically & behaviourally to the harsh, polar climate. These include:

- Thick fur for insulation e.g. polar bear
- Thick layer of blubber for insulation e.g. seals.
- Many are camouflaged, some changes seasonally e.g. Arctic hare/fox
- Animals huddle together for warmth e.g. Musk oxen
- Animals migrate during the winter e.g. Caribou
- Hibernation during winter e.g. polar bears



### Climate change

- Melting ice from glaciers/ice sheets is increasing sea levels.
- As seas warm, fish stocks move to cooler areas.
- Species are threatened as habitats/hunting grounds are reduced e.g. polar bears.
- Thawing permafrost means infrastructure such as houses and roads are collapsing.
- Inuit are finding it more difficult to hunt, fish, travel and herd animals as temperatures increase.
- Shipping and oil drilling is increasing.

### Glacial Retreat

As temperatures rise the size of glaciers is decreasing around the world.

- Lack of snow will impact ski resorts which rely on tourists for income.
- Increased risk of avalanches.
- Lack of fresh water in countries such as Peru.
- Increased risk of flooding.
- Sea level rise will affect island and coastal communities around the world e.g. Maldives.
- Changing weather patterns.

### People in the Arctic



Indigenous people (native/first peoples) have lived in the Arctic for 10,000 years.

There are populations living in Canada, Greenland, Russia and Scandinavia.

They were hunter-gatherers and lived a nomadic life. They hunted woolly mammoth, reindeer, bears, ox, seal, and fish.

They lived in rough shelters or igloos, wore animal skins & fur to keep warm and dried meat & fish to store in winter. Now many Inuit live in small communities but still practice traditional ways of living. Inuit tend to travel, fish & hunt using snow mobiles and dog sleighs. On the water they use kayaks.

Their way of life is threatened today by climate change as temperatures warm, ice melts and animals migrate.

### Opportunities & threats

#### Fishing

As ice melts in the Arctic, more fishing boats move in. Lack of fish can affect the food chain for marine life such as seals, birds, whales & sharks.

#### Mining

Polar regions have a wealth of minerals such as zinc, copper & gold. Mining can cause a lot of dust and noise pollution and contaminate drinking water e.g. Faro, Canada.

#### Oil drilling

As ice melts, new drilling locations open up. This increases the risk of oil spills which are almost impossible to clean up. They damage ecosystems and kill animals like birds, otters, bears and seals.

#### Tourism

As polar regions become more accessible the number of visitors increases. This can disturb wildlife and cause pollution from litter to sewage.

### Management

Stakeholders are people with an interest/concern in something.

- *Indigenous peoples*
- *Scientists*
- *Governments*
- *Conservation groups*

Polar regions are unique and fragile environments that need protecting. These strategies include:

#### **Sustainable management of tourism**

- International Association of Antarctic Tour Operators (IAATO)

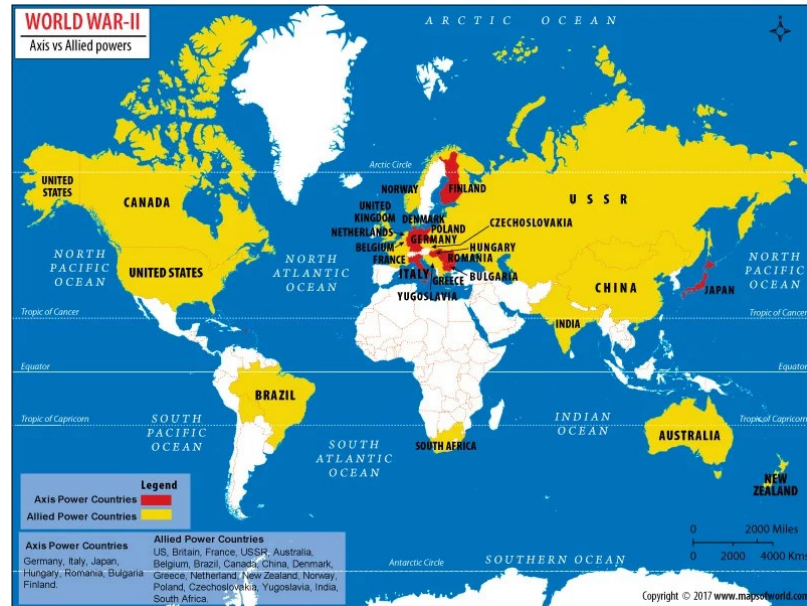
#### **International agreements**

- Antarctic Treaty
- Central Arctic Ocean Fisheries Agreement

# Year 9 History Term 2 Knowledge Organiser: World War Two

World War II, also called the Second World War. A conflict that involved virtually every part of the world during the years 1939–45. The map below shows the number of countries involved.

Allies/Allied Powers	Axis/Central Powers
Great Britain France Soviet Union from 1941 USA from 1941 China from 1941	Germany Italy Japan



TREATY	A formal agreement between countries.
REPARATIONS	Making amends for something i.e. giving money to someone you have harmed. Compensation.
FASCISM	A type of Nationalist government with strong leadership. A dictatorship.
NATIONALISM	Loyalty and devotion to your country.
GREAT DEPRESSION	A period of economic hardship during the 1930s, when unemployment was high and many businesses failed.
WEIMAR	The name of the democratic German government between 1918 and 1933.
APPEASEMENT	Giving in to someone's demands to avoid conflict
INEVITABLE	Something that is certain to happen and cannot be avoided.
TURNING POINT	A point at which a significant change occurs.
RETREAT	Pulling back from a battle.
EVACUATION	Moving people or soldiers from a place of danger.
CAMPAIGN	A series of planned movements carried out by armed forces
SIEGE	When enemy forces surround a town or building and cutting off essential supplies.
BLOCKADE	Sealing off a place to prevent supplies or people from entering or leaving.
ATOM BOMB	a very destructive nuclear bomb. It's power comes from the release of energy when atoms are split.

## TIMELINE OF WORLD WAR TWO

The Treaty of Versailles was signed.  
1919

Hitler became leader of Germany.  
1933

Britain followed the policy of appeasement.  
1935-39

Hitler invaded Poland. Britain declared war.  
1939

Germany surrender to the Allies.  
May 1945

The USA dropped atom bombs on Japan.  
August 1945

# Year 9 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 an exciting outdoor adventure sport that exercises mind and body. It can be done in teams or as an individual.

The aim is to navigate between checkpoints or controls marked on a special orienteering map. There is no set route so the skill and fun come from trying to find the best way to go.

In competitive orienteering, the challenge is to complete the course in the quickest time.

## Understanding the importance of the below terms

**Cardiovascular fitness-** The ability of the heart, lungs and blood to transport oxygen during sustained exercise. Our heart and lungs are able to cope with activity for relatively long periods of time without getting tired.

**Pacing-** refers to the rate at which you run (i.e., how quickly you run a certain distance).

**Terrain -** a piece of ground having specific characteristics, hilly, gravel, grass etc

**Map Orientation** – ensuring the map is relative to the compass directions of north

**Human features:** Know that a human feature is influenced by man (buildings, benches, fences, walls)

**Physical Features:** Know that a physical feature is natural (rivers, beaches, hills, forests)

## Methods of developing orienteering skills

Head to Head battles

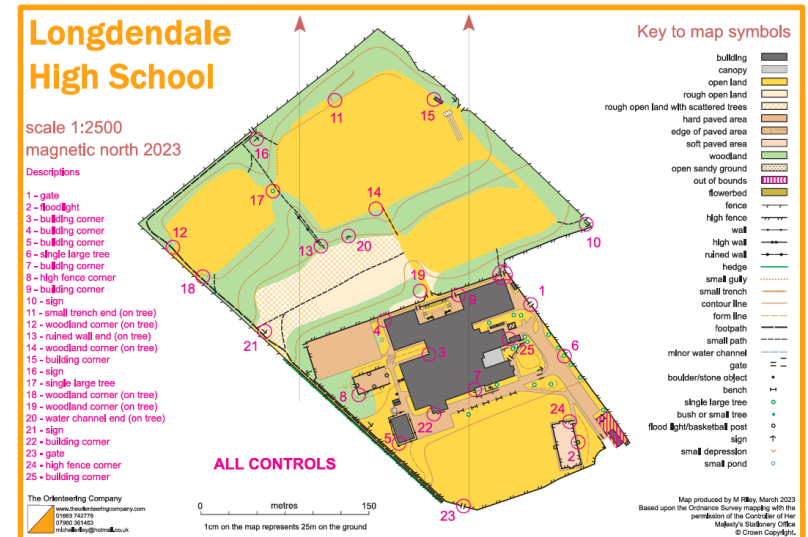
Cross country routes

Designing your own course

Team Clock Challenge

## Skills and characteristics

Map reading, compass use, pacing, timings, tactical approaches, planning, communication, cardiovascular fitness, resilience, speed, judgement, navigation.









## Tenses

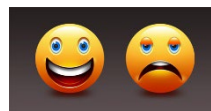
Verbos Regulares	VERBOS -AR HABLAR	VERBOS -ER COMER	VERBOS -IR VIVIR
yo	hablo	como	vivo
tú	hablas	comes	vives
él / ella	habla	come	vive
usted	habla	come	vive
nosotros / as	hablamos	comemos	vivimos
vosotros / as	habláis	coméis	vivís
ellos / ellas	hablan	comen	viven
ustedes	hablan	comen	viven

### Vivir = to live

Vivo	I live
Vives	You live
Vive	He/She/It lives
Vivimos	We live
Vivís	You all live
Viven	They live

## Opinions & Pronouns

Me encanta(n)      Me gusta(n)  
 Me chifla(n)      No me gusta(n)  
 Me gusta(n) mucho      No me gusta(n) nada



## Connectives

Porque  
 Porque es  
 Dado que  
 Por eso  
 También  
 Sin embargo  
 Aunque



**TOP CAT**  
 Translate it!

## Adjectives

Bonito/a	Beautiful
Hermoso/a	Good looking
Pequeño/a	Small
Grande	Big
Vivaz	Lively
Elegante	Elegant
Lujoso/a	Luxurious
Moderno/a	Modern
Antiguo/a	Old

las afueras	outskirts
la zona	area
la calle	street
el campo	countryside
el centro	centre
la ciudad	town/city
la costa	coast
el pueblo	village
la región	region



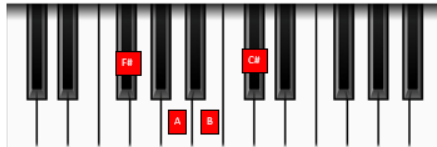
# Year 9 MUSIC HT4 Knowledge Organiser

## Shape of You

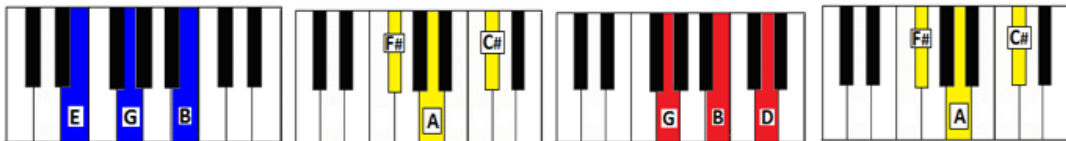
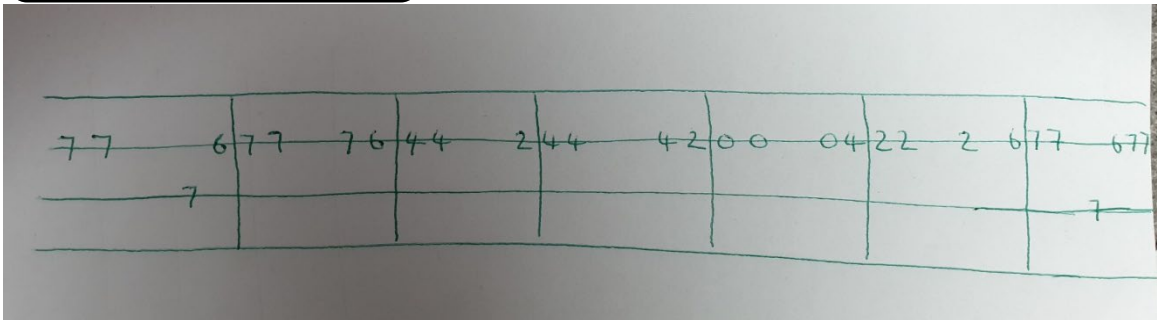
Part 1 – Right Hand – Higher Part  
 C# E C# C# E C# C# E C# D# C# B



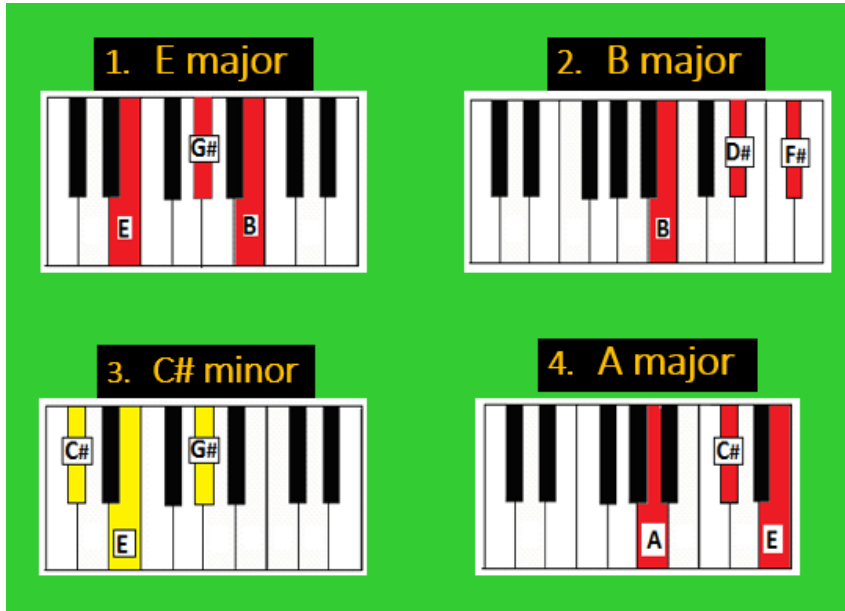
Part 2 – Left Hand – Lower Part  
 C# C# C# F# F# F# A A A B B B



## Stand by Me



## Don't Stop Believin'



## Try each instrument, then specialise.



Guitar



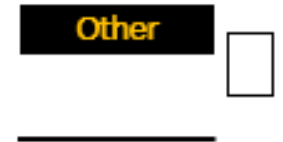
Bass



Drum kit

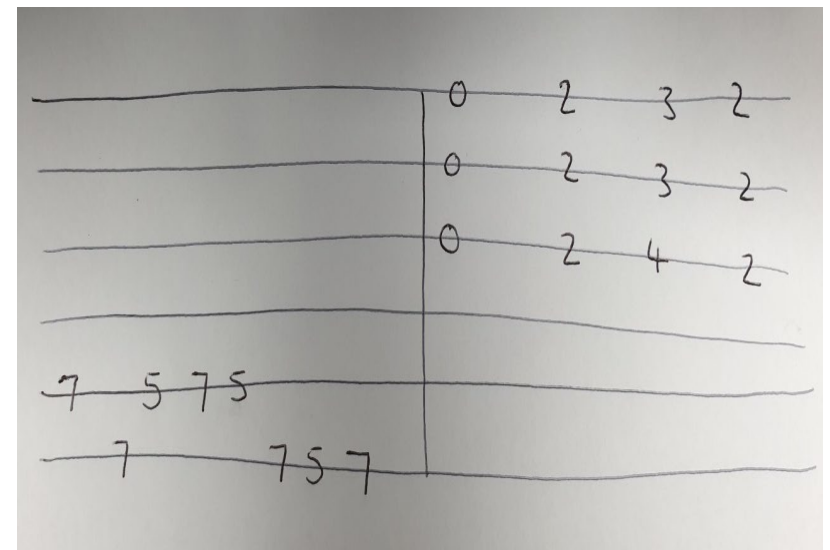


Keyboard



Other

## Billie Jean

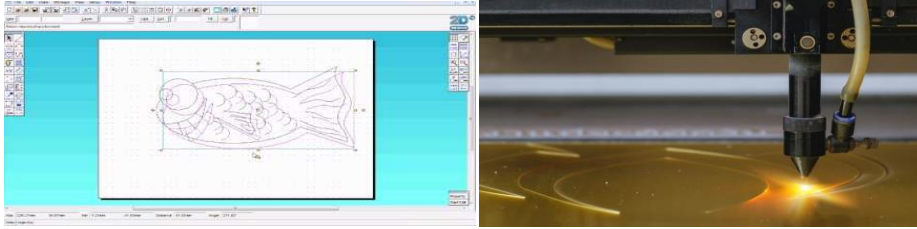




# Year 9 Design Knowledge Organiser

## CAD / CAM

CAD and CAM are a really important part of designing products and manufacturing them. They're used in lots of different industries from food packing to component manufacture.



### CAD

Using computers to create/draw/present designs. E.g. 2D Design or Tinkercad. Accurate, easy to adapt/ share/ copy, links to CAM, fast global communication

### CAM

Using computers to cut, print, paint, assemble or package products. E.g. robotics, LASER cutters, lathes, 3D printers, CNC milling machines, knitting machines. Accurate and fast mass production, lower product cost.

## Pewter



Pewter is a traditional low-temperature metal (casting material 170°C - 230 °C).

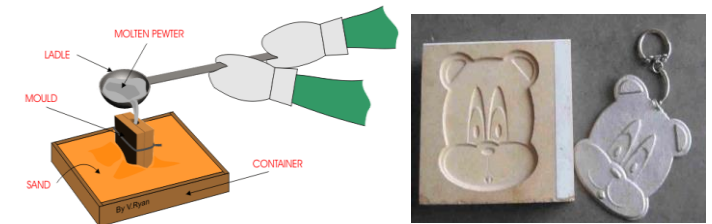
It is used to make everything from jewellery to goblets.

Pewter is an alloyed metal made primarily from tin (tin 91%, antimony 7.5% & copper 1.5%)

Pewter is grey in colour and was traditionally used to make plates and beer tankards.

Pewter is 100% recyclable.

## Casting



Casting is a manufacturing process in which a liquid material is usually poured into a mould, which contains a hollow cavity of the desired shape.

Casting can be used to mass produce lots of identical products. Engine blocks are cast so that they are very strong and durable.

## Health and Safety



Long hair  
must be tied  
back



Wear  
goggles



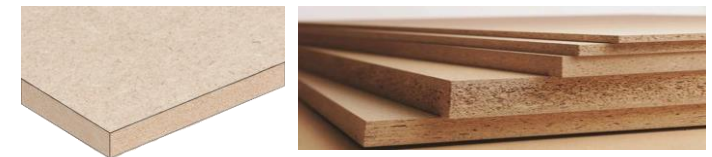
Protective  
apron  
must be worn

## Junior Hacksaw



Junior hacksaws are commonly used for cutting through metal pipes or plastic tubing. The blade of a junior hacksaw can be used for more precise cutting or for applications that require a neater finish.

## MDF



Medium-density fibreboard (MDF) is made from pulverized wood fibres blended with resins and pressed into sheets under temperature and pressure. MDF is generally denser than plywood.

## Bradawl

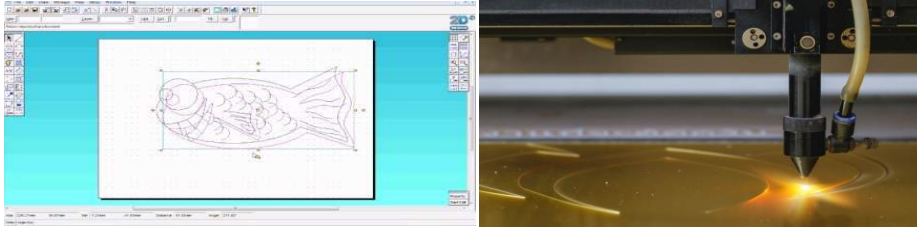


A bradawl is a woodworking hand tool with a blade similar to that of a straight screwdriver and a handle typically made from wood or plastic.

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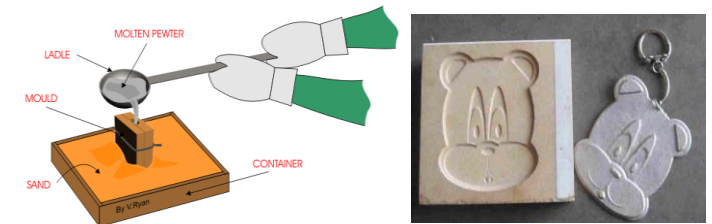
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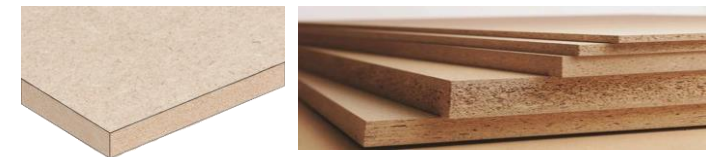
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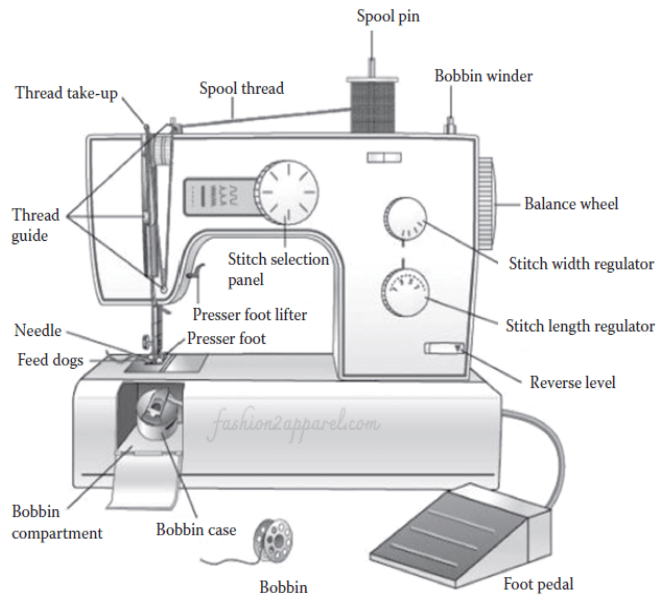


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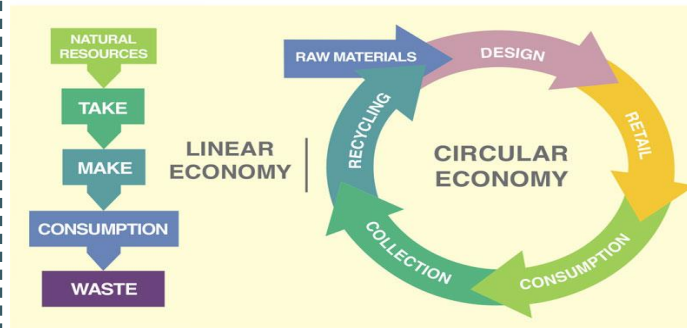


# Year 9 Textiles Knowledge Organiser

## Sewing Machine



## Sustainability



Sustainable textiles refers to fabrics derived from eco-friendly resources, such as sustainably grown fibre crops or recycled materials.

Sustainable textiles includes the use of second-hand retail repair and often utilizes upcycling and recycling of clothing. It also refers to how these fabrics are made.

## Hems



Hems lie at the end of a piece of cloth, where the fabric has been folded and sewn into place to prevent the material from fraying or losing its shape.

## Decorative Textile Techniques



Embroidery



Marbling

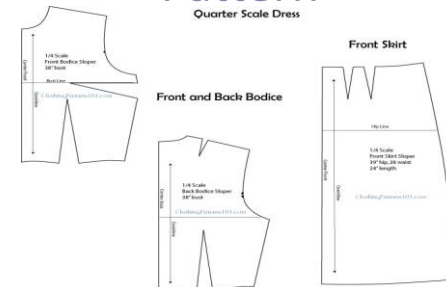


Appliqué



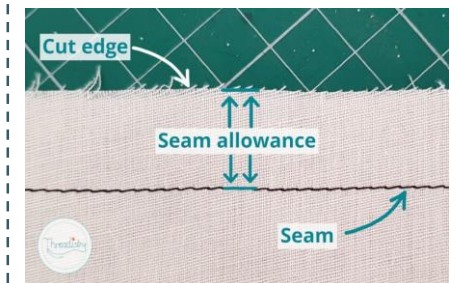
Fabric Manipulation

## Pattern



A pattern is the template from which the parts of a garment are traced onto woven or knitted fabrics before being cut out and assembled. Deconstructing an existing garment can provide you with a template to base your own pattern on.

## Seam Allowance

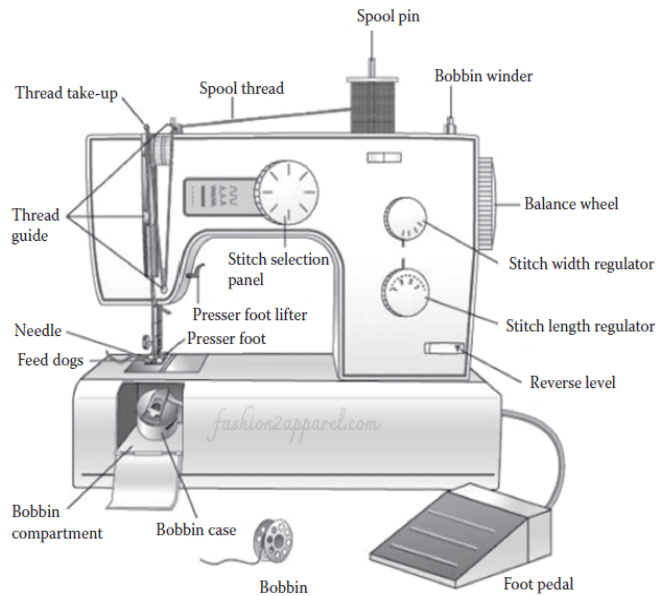


Seam allowance is the distance from the raw edge of the fabric to the seamline (or seam stitch line). Seam allowance allows for the formation of all seams by providing excess fabric for efficiently stitching a seam together.

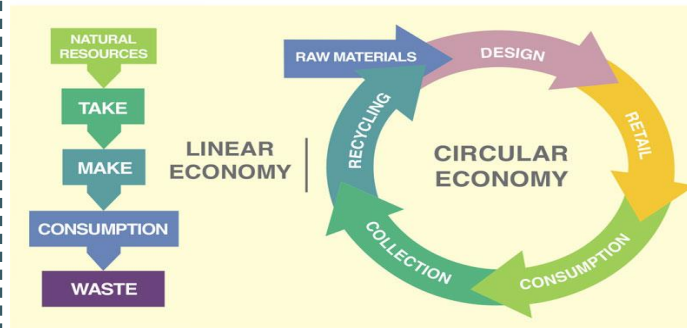


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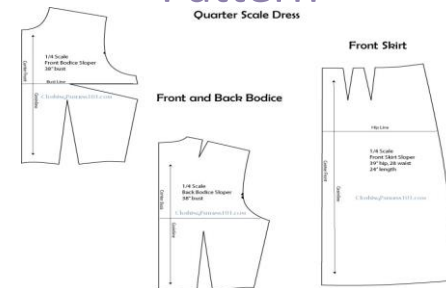


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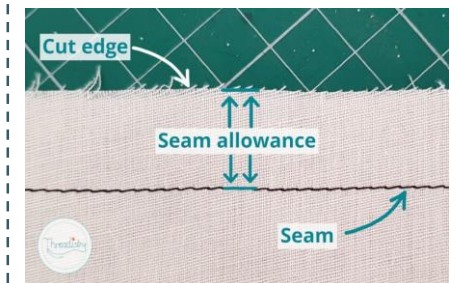
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# Do we need to prove God's existence?

## Key terms

Faith	strong belief in the principles of a religion, based on spiritual belief rather than proof
Contingent	Depending on something else in the future in order to happen.
Infinite	Limitless or endless in space, extent, or size.
Religious Experience	An event that people feel gives them direct contact with God.
Prayer	An attempt to contact God, usually through words
Miracle	Something which seems to break a law of science and makes you think only God could have done it.
Numinous	The feeling of the presence of something greater than you.
Agnostic	Someone who is unsure whether there is or isn't a God.

## Crucial Commands:

**Describe:** Say in detail what something or someone is like, and the impact it has. E.g. Describe some consequences of going to war.

**Explain:** Say why something or someone is important, and the impact it has. E.g. Explain religious attitudes to the Just war theory..

**DISCUSS:** Write about at least two points of view and explain why these points of view are valuable or not. E.g. "Is religion a power for peace or cause of conflict in the world today?"

## Why do Muslims believe in God?

The appearance of causation in the world is often called the **first cause argument** and goes like this:

1. we look at things in the world we see that they have a cause,
2. Anything caused to exist must be caused to exist by something else.
3. You cannot keep going back with causes because in any casual chain you have to have a beginning.
4. The only possible first cause of the universe is God therefore God must exist.

This argument makes Muslims think the universe the world and humans must have come from somewhere they must have had a cause as God is the only logical cause of the universe it make them think that God must exist for it supports their belief in God if they already believe.

## What is the design argument?

Some Christians believe that it is possible to prove the existence of God by observing the nature of the world we live in. The world shows signs of ORDER and things working to achieve a PURPOSE. This is evidence of DESIGN. (God is the DESIGNER).

- William Paley supported this argument by way of ANALOGY. He drew a similarity between the world and an old-fashioned pocket watch. He argued that if you went for a walk and stumbled across a pocket watch in a field you would know that a skilful watchmaker must have designed it

**Problem: If the world is designed by an omnipotent God, then why is there so much evil and suffering in the world?**

## Why did the Buddha think belief in God was unimportant?

1. **Anicca** – everything in the universe depends on other things for its existence. If conditions are right, they come into existence; if conditions change, they cease to exist.
2. **Anatta** – there is no permanent soul because nobody stays the same from birth to death. Your body grows older and your mind develops.
3. **Dukkha** – Because everything changes and dies, the Buddha taught that life can never completely satisfy us, and that makes us suffer.

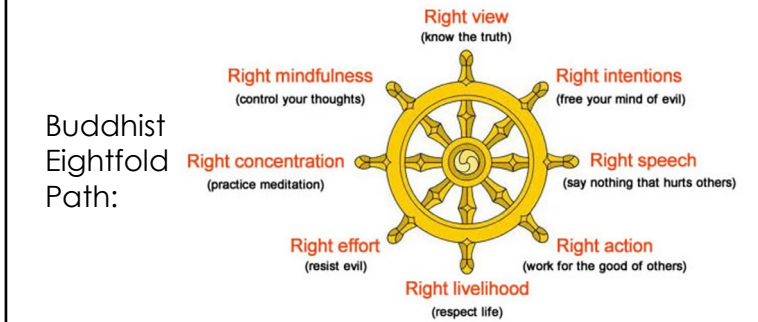
## Can we experience God in our world?

- Type of Experience: **Numinous**
- **Neil Armstrong, Astronaut.**

In Brief: He was one of the first men to step foot on the moon in 1969. After his adventure, he explained that an incredible feeling had passed over him while looking back at Earth from the Moon.

- When Neil Armstrong first stepped foot on the moon, he looked at the Earth and the universe around him and felt as if he was in the presence of God. He no longer questioned whether God existed, he just 'knew' it.
- This feeling of being overwhelmed by the sense of the presence of something greater than you is a spiritual emotion.

## In Buddhist thinking, what can save us from pain and suffering?



## Do we need to prove God's existence? (Atheism)

### Richard Dawkins:

- Argues the system of natural selection creates an 'illusion' of design.
- Dawkins explains that genes alone are responsible for what we now know as intelligent life.
- We inherit some cultural values of those who came before us.
- Dawkins argues, humans appear to have an appreciation of beauty but it is actually no more than part of the survival mechanism.



# Do we need to prove God's existence?

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**Describe:** Say in detail what something or someone is like, and the impact it has. E.g. Describe some consequences of going to war.

**Explain:** Say why something or someone is important, and the impact it has. E.g. Explain religious attitudes to the Just war theory..

**DISCUSS:** Write about at least two points of view and explain why these points of view are valuable or not. E.g. "Is religion a power for peace or cause of conflict in the world today?"

## Why do Muslims believe in God?

The appearance of causation in the world is often called the **first cause argument** and goes like this:

1. we look at things in the world we see that they have a cause,
2. Anything caused to exist must be caused to exist by something else.
3. You cannot keep going back with causes because in any casual chain you have to have a beginning.
4. The only possible first cause of the universe is God therefore God must exist.

This argument makes Muslims think the universe the world and humans must have come from somewhere they must have had a cause as God is the only logical cause of the universe it make them think that God must exist for it supports their belief in God if they already believe.

## What is the design argument?

Some Christians believe that it is possible to prove the existence of God by observing the nature of the world we live in. The world shows signs of ORDER and things working to achieve a PURPOSE. This is evidence of DESIGN. (God is the DESIGNER).

- William Paley supported this argument by way of ANALOGY. He drew a similarity between the world and an old-fashioned pocket watch. He argued that if you went for a walk and stumbled across a pocket watch in a field you would know that a skilful watchmaker must have designed it

**Problem: If the world is designed by an omnipotent God, then why is there so much evil and suffering in the world?**

## Why did the Buddha think belief in God was unimportant?

1. **Anicca** – everything in the universe depends on other things for its existence. If conditions are right, they come into existence; if conditions change, they cease to exist.
2. **Anatta** – there is no permanent soul because nobody stays the same from birth to death. Your body grows older and your mind develops.
3. **Dukkha** – Because everything changes and dies, the Buddha taught that life can never completely satisfy us, and that makes us suffer.

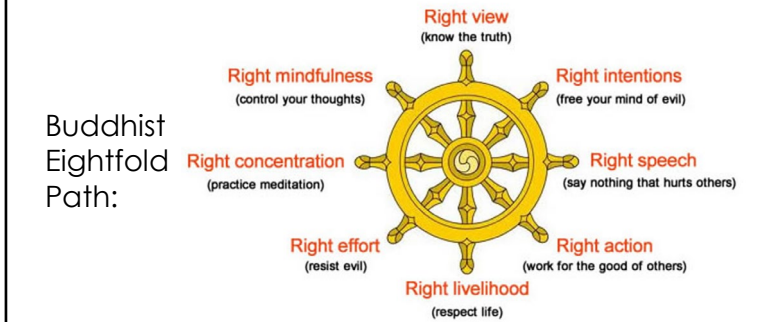
## Can we experience God in our world?

- Type of Experience: **Numinous**
- **Neil Armstrong, Astronaut.**

In Brief: He was one of the first men to step foot on the moon in 1969. After his adventure, he explained that an incredible feeling had passed over him while looking back at Earth from the Moon.

- When Neil Armstrong first stepped foot on the moon, he looked at the Earth and the universe around him and felt as if he was in the presence of God. He no longer questioned whether God existed, he just 'knew' it.
- This feeling of being overwhelmed by the sense of the presence of something greater than you is a spiritual emotion.

## In Buddhist thinking, what can save us from pain and suffering?



## Do we need to prove God's existence? (Atheism)

### Richard Dawkins:

- Argues the system of natural selection creates an 'illusion' of design.
- Dawkins explains that genes alone are responsible for what we now know as intelligent life.
- We inherit some cultural values of those who came before us.
- Dawkins argues, humans appear to have an appreciation of beauty but it is actually no more than part of the survival mechanism.