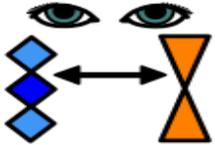
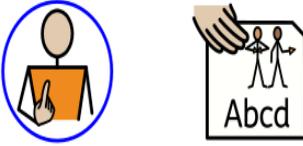
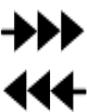


English – Yr9 Autumn 1

 <p style="text-align: center;">Persuade</p>	<p>To persuade somebody is to make somebody so something or think as you do on a topic.</p>	<p>Example:</p> <p>I will persuade my mum to let me go to the disco.</p>
 <p style="text-align: center;">Advise</p>	<p>To advise somebody is to given them ideas about what to do.</p>	<p>Example:</p> <p>I advise you to go home straight after school.</p>
 <p style="text-align: center;">Argue</p>	<p>To argue is give reasons for and against something.</p>	<p>Example:</p> <p>I can argue for and against having mobile phones in school.</p>
 <p style="text-align: center;">Instruct</p>	<p>To instruct is to tell somebody how something should be done.</p>	<p>Example:</p> <p>Our teacher will instruct us on how to make a bird box.</p>
 <p style="text-align: center;">Convention</p>	<p>Writing Conventions are rules that different types of writing follow.</p>	<p>Example:</p> <p>Poetry Newspaper article Diary Entry Story Play</p>
<p style="text-align: center;">3 4 1 5 2  1 2 3 4 5</p> <p style="text-align: center;">Chronological</p>	<p>Chronological means the order that things happen in.</p>	<p>Example:</p> <p>After school, I wash my hand then I eat. Afterwards I watch TV.</p>
 <p style="text-align: center;">Fact</p>	<p>A fact is a statement that we know to be true.</p>	<p>Example:</p> <p>London is the capital city of England.</p>

 <p>Opinion</p>	<p>An opinion is your belief about something and might not be true for everyone.</p>	<p>Example:</p> <p>In my opinion gold fish make the best pets.</p>
 <p>Bias</p>	<p>Bias means that a person prefers an idea and does not give equal chance to a different idea.</p>	<p>Example:</p> <p>Elthorne Park High School is the best school in England.</p>
 <p>Repetition</p>	<p>Repetition is when the same ideas or words are used again and again.</p>	<p>Example:</p> <p>"Fear leads to anger; anger leads to hatred; hatred leads to conflict; conflict leads to suffering." — Yoda, in Star Wars Episode I: The Phantom Menace.</p>
 <p>Metaphor</p>	<p>A metaphor is when you compare one thing to another. It suggests one thing is like another because they are similar.</p>	<p>Example:</p> <p>My brother is a couch potato.</p> <p>My teacher is a dragon.</p>
 <p>Emotive Language</p>	<p>Emotive Language is when you use words to make the reader or listener feel emotional.</p>	<p>Example:</p> <p>After Christmas every year, there are thousands of abandoned puppies left to wander the streets, scared and alone.</p>
 <p>Personal Pronoun</p>	<p>A personal pronoun is a word that replaces a noun and refers to a specific person(s) or thing(s).</p>	<p>Example:</p> <p>'I', 'you', 'she', or 'they'</p>
 <p>Hyperbole</p>	<p>Hyperbole is a super-exaggerated way of describing something so that you can emphasize a point.</p>	<p>Example:</p> <ul style="list-style-type: none"> I'm so hungry, I could eat a horse. My feet are killing me. This is the best book ever written.

<p>a e i o u Syllable</p>	<p>A syllable is a single, unbroken vowel sound within a spoken word.</p>	<p>Example: Divide <i>elephant</i> into syllables: el-e-phant</p>
<p>  Rethorical Question</p>	<p>A rhetorical question – is a question not expected to be answered.</p>	<p>Example: How could I be so stupid?</p>
<p>  Imperative Sentence</p>	<p>An Interrogative sentence is just a question</p>	<p>Example: Who was the last speaker?</p>
<p>  Interrogative Sentence</p>	<p>Imperative sentence – A sentence that commands or demands.</p>	<p>Example: Do your homework.</p>
<p>  Exclamatory Sentence</p>	<p>An exclamatory sentence is a sentence that exclaims and ends with an exclamation mark!!</p>	<p>Example: Look out!</p>
<p>  Main Clause</p>	<p>A main clause is a group of words that has a subject and verb. A main clause is a sentence.</p>	<p>Example: I choose not to go to the party.</p>
<p>  Subordinate Clause</p>	<p>A subordinate clause is a clause that cannot stand alone as a complete sentence because it does not express a complete thought.</p>	<p>Example: Although my friends begged me, I chose not to go to the party.</p>
<p>  Complex Sentence</p>	<p>A complex sentence is an independent clause (a sentence that can stand on its own) with 1 or more dependent clauses added (dependent clauses can't stand on their own as a sentence).</p>	<p>Example: Although my friends begged me, I chose not to go to the party.</p>

Maths

$$8.3\cancel{4}\cancel{9}\cancel{8} \rightarrow 8.3$$

$$9.3\cancel{8}\cancel{7}\cancel{2} \rightarrow 9.4$$

Round

To change a number to a more convenient value.

Example

number **85674.87589**

rounded to

10  85670

100  85700

1000  86000



Estimate

To make an approximate calculation, often based on rounding.

Example

number **85674.87589**

rounded to

10  85670

100  85700

1000  86000

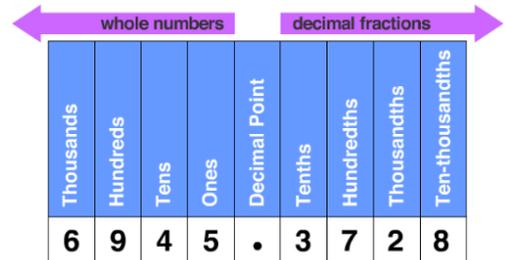
0.4

Decimal Place

A number in a number system based on 10, also known as the Base-10 system.

Example

a decimal point separates whole numbers from fractions



78.345

80

Significant Figure

The digits that give most meaning to a number. The most significant digit in an integer is the number on the left. The most significant digit in a decimal fraction is the first non-zero number after the decimal point.

Example

37,554 has 5 significant digits
 to 10: 37,550 has 4 significant digits
 to 100: 37,600 has 3 significant digits
 to 100: 38,000 has 2 significant digits
 to 10000: 40,000 has 1 significant digit

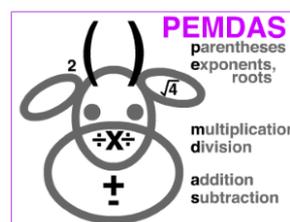
+ ÷
X -

Order of Operations

The order in which mathematical operations should be done.

E.g. PEMDAS, BIDMAS or BODMAS

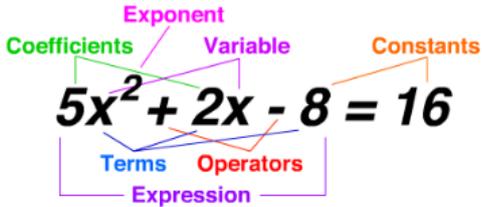
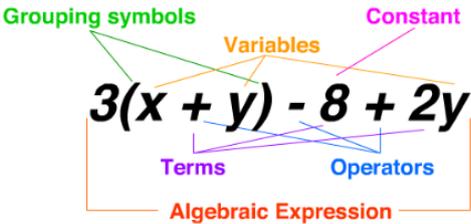
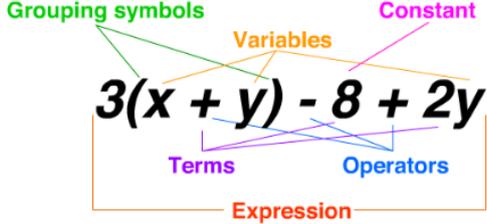
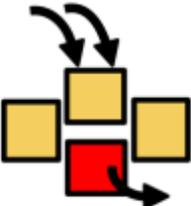
Example



PEMDAS
 parentheses
 exponents,
 roots

$2 + 6 (3+1)^2$
P = $2 + 6 (4)^2$
E = $2 + 6 (16)$
M = $2 + 96$
D
A = 98
S

multiplication
 division
 addition
 subtraction

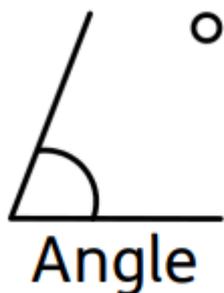
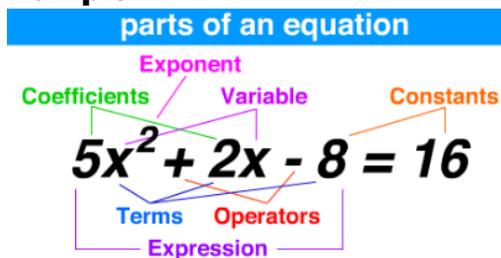
$a^2 + b^2 = c^2$ <p>Algebra</p>	<p>Elementary algebra is an area of mathematics where numbers and quantities called variables are represented by letters and symbols in expressions and equations.</p>	<p>Example</p> 				
$4ab + c$ <p>Algebraic Expression</p>	<p>A mathematical phrase combining numbers and/or variables. An expression does not contain equality or inequality signs but may include other operators and grouping symbols. Both sides of an equation are expressions.</p>	<p>Example</p> 				
$4ab + c \quad X \quad + \quad -$ $= \quad \div$ <p>Expression</p>	<p>An expression is one or a group of terms and may include variables, constants, operators and grouping symbols.</p>	<p>Example</p> 				
$123 \quad abc$ <p>Variable</p>	<p>A quantity that can change or vary, taking on different values. A letter or symbol representing a varying quantity, for example, n in $10 + n$.</p>	<p>Example</p> <p style="background-color: #90EE90; padding: 5px; text-align: center;">variable</p> <p>A variable may be represented by any letter of the alphabet.</p> <table style="margin-left: auto; margin-right: auto;"> <tr> <td style="padding: 0 10px;">$6 + n$</td> <td style="padding: 0 10px;">$t + 10$</td> </tr> <tr> <td style="padding: 0 10px;">$6 - z$</td> <td style="padding: 0 10px;">$b - 20$</td> </tr> </table>	$6 + n$	$t + 10$	$6 - z$	$b - 20$
$6 + n$	$t + 10$					
$6 - z$	$b - 20$					
 <p>Substitute</p>	<p>In algebra, the substitution of numbers for letters. The substitution of numbers for variables to simplify or solve expressions and equations.</p>	<p>Example</p> <p>In algebra, substitution involves replacing letters, i.e. variables, with numbers to solve or simplify expressions and equations.</p> 				

$$3a = 10$$

Equation

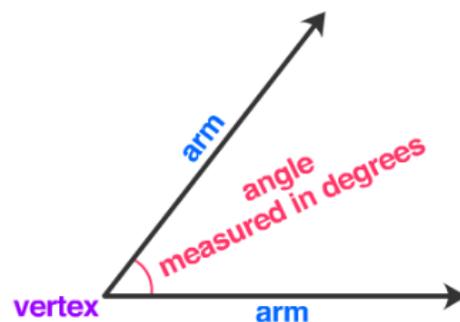
A mathematical statement containing an equals sign, to show that two expressions are equal.

Example



The amount of turning between two rays called arms meeting at a common point called the vertex. An angle is measured in degrees.

Example

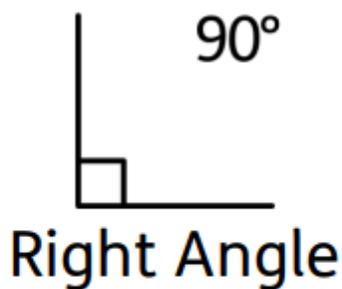
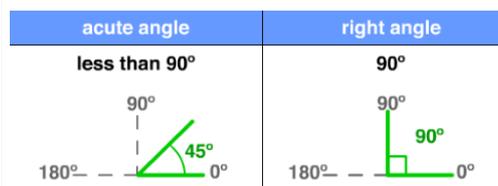


83°
Degrees

Degree has many meanings in mathematics, including:

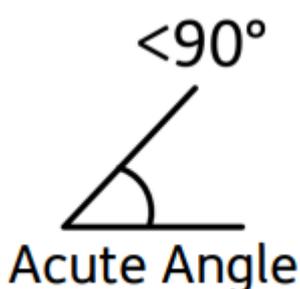
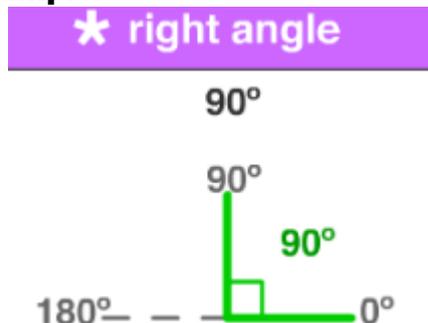
- A unit for measuring the size of an angle, symbol °
- A unit for measuring temperature, symbol °

Example



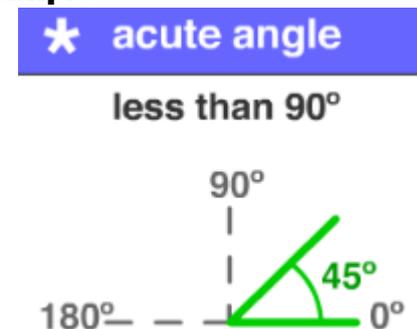
An angle measuring 90°.

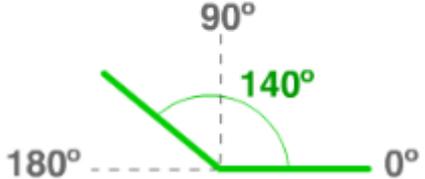
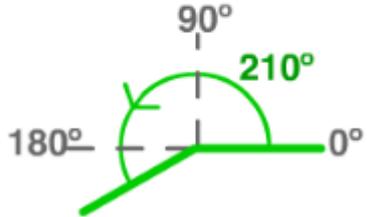
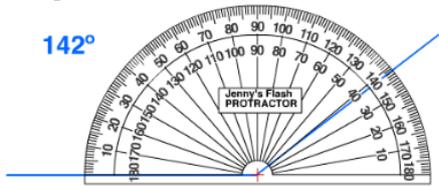
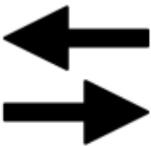
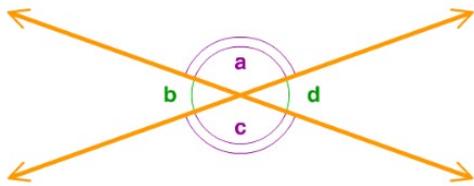
Example



An angle measuring less than 90 degrees.

Example



<p style="text-align: center;">$>90^\circ$</p>  <p style="text-align: center;">Obtuse Angle</p>	<p>Any angle between 90° and 180°.</p>	<p>Example</p> <p style="background-color: #4a7ebb; color: white; padding: 5px; text-align: center;">★ obtuse angle</p> <p style="text-align: center;">between 90° and 180°</p> 
<p style="text-align: center;">$>180^\circ$</p>  <p style="text-align: center;">Reflex Angle</p>	<p>Any angle between 180° and 360°.</p>	<p>Example</p> <p style="background-color: #9933cc; color: white; padding: 5px; text-align: center;">★ reflex angle</p> <p style="text-align: center;">between 180° and 360°</p> 
 <p style="text-align: center;">Protractor</p>	<p>An instrument used to measure angles in degrees. Protractors may be circular, a full rotation of 360°, but many are a semi-circle of 180°.</p>	<p>Example</p> 
 <p style="text-align: center;">Vertically Opposite</p>	<p>Pair of angles directly opposite each other, formed by the intersection of straight lines. May also be called vertically opposite angles or opposite angles.</p>	<p>Example</p> 

Science



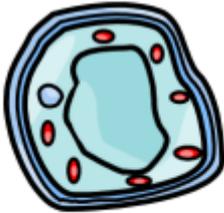
Cell Wall

A tough layer of material around some cells which is used for protection and support.



Chlorophyll

The green substance found inside chloroplasts.



Chloroplasts

A green disc containing chlorophyll, found in plant cells.



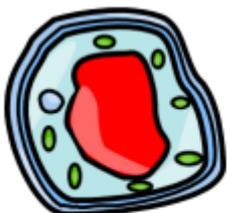
Cytoplasm

The watery jelly inside a cell where the cell's activities take place.



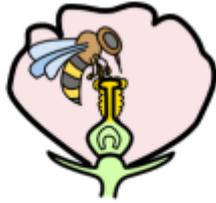
Nucleus

The control centre of the cell.



Vacuole

A storage space in cells. Plants cells have a large permanent vacuole that helps keep them rigid.



Fertilisation

Fusing a male gamete and a female gamete.



Velocity

The speed of an object in a particular direction. E.g. a force.



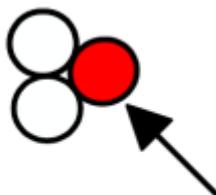
Weight

The force pulling an object downwards.



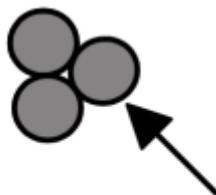
Gradient

A way of describing the steepness of a line on a graph in numbers.



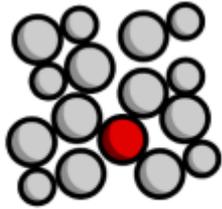
Atom

The smallest natural part of an element.



Molecule

Particle consisting of two or more atoms joined together.



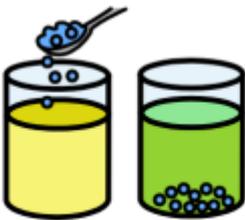
Particle

A tiny piece of matter that everything is made out of.



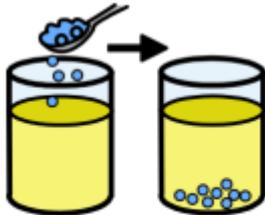
Filtration

Using a filter to separate insoluble substances from a liquid.



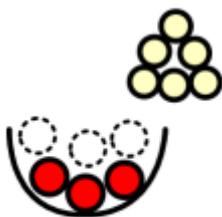
Saturated

Contains the maximum amount of solute that can dissolve.



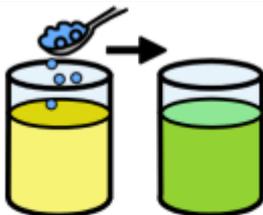
Insoluble

Describes a substance that cannot be dissolved in a certain liquid.



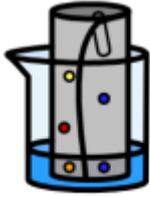
Residue

Material remaining in the filter after a mixture has passed.



Solution

Formed when a substance has dissolved in a liquid.



Chromatography

A technique for separating the components of a mixture.



Distillation

The process of separating a liquid from a mixture by evaporating the liquid and then condensing it.



Mixture

Two or more substance jumbled together but not joined together.

History



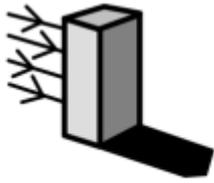
Assassination

When a person is murdered for political reasons.



Bayonet

A long blade or knife attached to the end of a musket. Soldiers would use it like a spear in close combat.



Blockade

An attempt to stop people and supplies from going in or out of a port.



Casualty

A soldier that is wounded or killed during battle.



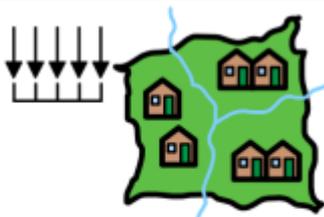
Confederacy

Another name for the Confederate States of America or the South. The Confederacy was a group of states that left the United States to form their own country.



Emancipation
Proclamation

An executive order from President Abraham Lincoln stating that the enslaved in the Confederate states were to be set free.



Federal

A term used to describe people who supported the Union.



Infantry

Soldiers that fight and travel by foot.



Musket

A long gun with a smooth bore that soldiers shot from the shoulder.

N



North

The northern states of the United States, also called the Union.



Plantation

A large farm in the southern United States. Before the Civil War many of the workers on plantations were enslaved.



Rebel

A nickname given to people in the South supporting the Confederate States.



Secede

When the southern states chose to leave the United States and to no longer be a part of the country.



S

South

A nickname for the Confederate States of America or the Confederacy.



Union

The name given to the states that stayed loyal to the United States government. Also called the North.



Yankee

A nickname for people from the North as well as Union soldiers.

Geography



Erosion

Wearing away and removal of material by a moving force, such as a breaking wave



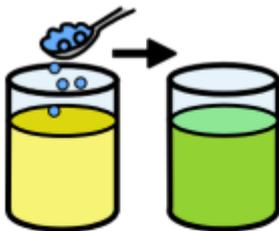
Abrasion

Rocks carried along by the river wear down the river bed and banks.



Hydraulic Action

The force of the river against the banks can cause air to be trapped in cracks and crevices. The pressure weakens the banks and gradually wears it away.



Solution

Particles dissolved by the chemicals in the water.



Discharge

The quantity of water that passes a given point on a stream or river-bank within a given period of time.



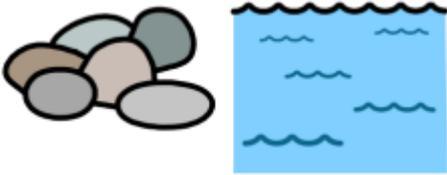
Precipitation

Moisture falling from the atmosphere – as rain, hail, sleet or snow.



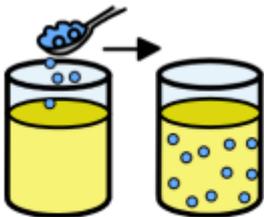
Transportation

The movement of eroded material



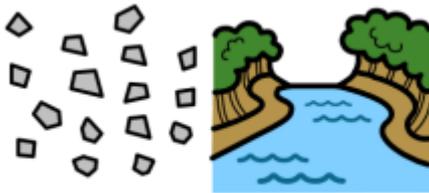
Traction

The rolling of boulders and pebbles along the river bed.



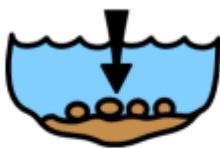
Suspension

Fine solid material held in the water while the water is moving.



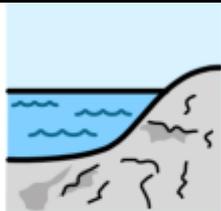
Saltation

Soluble particles are dissolved into the river.



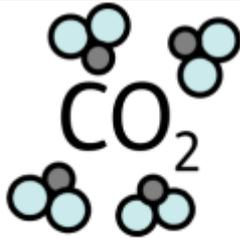
Deposition

Particles bouncing down the river bed.



Long Profile

Occurs when material being transported by the river is dropped due to it losing energy



Carbon Footprint

Measurement of the greenhouse gases individuals produce, through burning fossil fuels



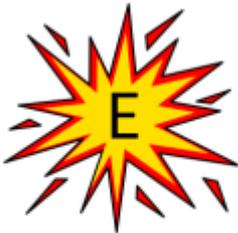
Climate Change

A long-term change in the earth's climate, especially a change due to an increase in the average atmospheric temperature



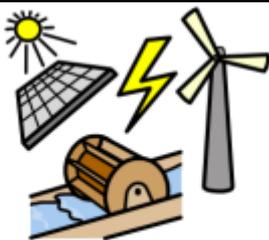
Conservation

Managing the environment in order to preserve, protect or restore it



Energy Conservation

Reducing energy consumption by using less energy and existing sources more efficiently



Renewable Energy

A resource that cannot be exhausted, i.e. wind, solar or tidal energy.



Pollution

Chemicals, noise, dirt or other substances which have harmful or poisonous effects on an environment



Sustainability

Actions that meet the needs of the present without reducing the ability of future generations to meet their needs



Urban Greening

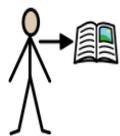
Process of increasing and preserving open space in urban areas, i.e. public parks and gardens

Year 9 Drama



Subtext

The underlying and often unspoken thoughts and motives of characters – what they really think and believe.



Character motivation

The reason behind a character's behaviour and actions in a given scene.



Effect

An event or a moment intended to create a particular emotional reaction.



Evaluate

To judge the strengths and weaknesses of a performance.



Analyse

The process of examining a piece of drama to find the meaning that is being communicated.

Year 9 Music



Melody

The most important part of the song (the tune).



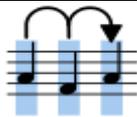
Rhythm

The pattern of sound in time.



Tempo

Speed of the music



Pulse

The heartbeat of the music.



Texture

How many parts or instruments are playing at once.



Dynamics

How loud or soft the music is.



Ostinato

A short repeating pattern of music



Timbre

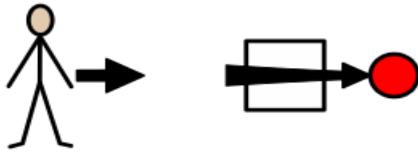
Sound quality (a violin has a different timbre to a guitar)



Leitmotif

A musical idea in film music that represents a particular place, character or theme.

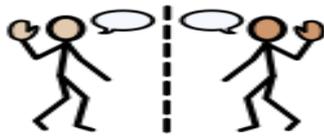
Year 9 Physical Education



lateral

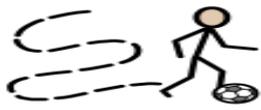
Pass

Passing directly sideways



Mirror

Copy exactly what the person is doing



Dribble

Move the ball in and out of the cones



Tension

Hold your body in a specific shape without moving



Agile

Change direction of movement at speed



Intercepting

Stopping an item (football, basketball, Rugby Ball) moving from one person to another



Feint

Pretend to go in one direction but don't and choose another direction.

Safety Rules - Food Technology

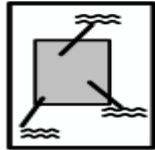


Wash Hands

Wash your hands before and after touching food.



Read



Labels

Read the labels on food products carefully. The label will tell you the safest way to store the product – whether it's in the fridge or in a cool cupboard.



+



Wash Fruit and Vegetables

Wash all fruits and vegetables before eating and preparing



Don't Run

Move carefully in the kitchen –never run.



Wipe



Spills

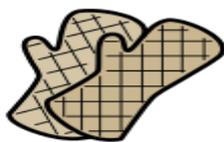
Wipe up any spillages straight away.



Be Careful of sharp knives



Be careful when using sharp knives or utensils.



Oven Mitts

Always use oven mitts to remove hot food and dishes from the stove and oven.



Wash



Utensils

Wash all of the utensils you have used in hot, soapy water.



Apron

Make sure your clothes are clean and wear a clean apron.

Year 9 Information Technology

10
Denary

We count in denary is has a base 10 number system (10 single digit numbers).

```
1101010101010010100010
100101111000001000100101
010101010101001011100011
010001010010101110001001
01010101000011110101010
0101010101010100100011
```

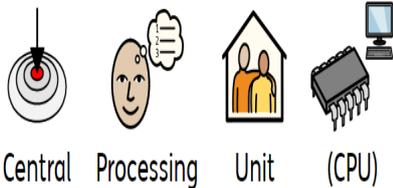
Binary

Binary code is a base 2 number system. It is one type of coding that uses 0 and 1 to show letters, numbers and symbols. It is called binary code because it's made of only two symbols. The "bi" in binary means two!

Computers work in binary as they store things in a series of switches which can either be off (0) or on (1)

16
Hexadecimal

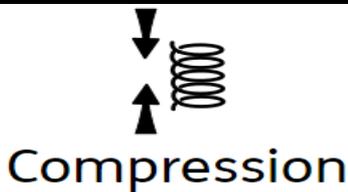
Base 16 number system (16 single digit numbers, 0 to 9 then A to F). Used by programmers as it is easier to understand than binary (numbers not as long) but easier for the computer to convert to binary than denary



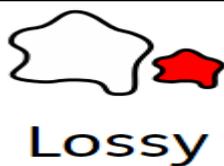
The 'brain' of the computer. Does all of the calculations

Abcd
Abcd
Abcd
Character Set

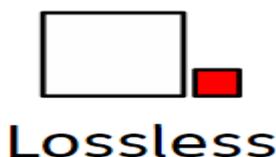
How letters, numbers and symbols are shown in the computer



Making files smaller



Type of compression. Makes files smaller than Lossless compression but may lose some quality in images, sound, etc. Not suitable for some types of file (e.g. Word/Google documents)



Does not compress files as much as Lossy compression, but does not lose any quality. Can be used with most types of file

Safety Rules – Resistance Materials



Safety Goggles

Always wear safety goggles to protect your eyes when using machines.

1



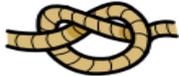
One Person

Only 1 person allowed on a machine at a time.



Don't Run

Move carefully and never run.



Tie

hair

Make sure your hair is tied back.



Tuck Lanyard

Make sure your lanyard is tucked in so that it doesn't get in the way.



Don't Push

Do not push or touch other people.



Supervision

Do not use machines or tools without an adult



Don't



blow

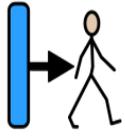


dust

Do not blow dust



Fingers



away from



sharp



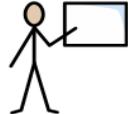
objects

Keep your fingers away from sharp objects and equipment.



Listen

to



Teacher

Always listen to the teacher