

Knowledge Organiser

Year 7 Autumn 2 2024



Create Your Future

“Nothing in life is to be feared, it is only to be understood. Now is the time to understand more, so we may fear less.”

Marie Curie

A Chemist and Physicist who conducted pioneering research on radioactivity. She was the first woman to win a Nobel Prize, the first person to win a Nobel Prize twice and the only person to win a Nobel Prize in two scientific fields.

Name:

Tutor Group:

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Science, PE and Technology are on a rotation so have multiple pages in this booklet.
Your teacher will direct you to the appropriate pages when setting work.

Timetable

Week 1	1	2	3	4	5
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					

Week 2	1	2	3	4	5
Monday					
Tuesday					
Wednesday					
Thursday					
Friday					

In Class Expectations



Out of Class Expectations



Being in school and being on time is crucial for success and preparing for the future. Lost learning can lead to additional anxiety and pressure to catch up work and risks the student falling even further behind.

Create Your Future



BE PRESENT
BE PUNCTUAL

THERE ARE 175 NON-SCHOOL DAYS DURING THE YEAR TO SPEND ON FAMILY TIME, VISITS, HOLIDAYS, SHOPPING, HOUSEHOLD JOBS AND OTHER APPOINTMENTS

DAYS OFF SCHOOL ADD UP TO LOST LEARNING

BE BELPER

100%
OUR TARGET FOR ALL STUDENTS

97%
6 DAYS ABSENCE
30 HOURS LOST LEARNING
EXCELLENT
OR GOOD ATTENDANCE
BEST CHANCE OF
ACADEMIC SUCCESS

95%
10 DAYS ABSENCE
50 HOURS LOST LEARNING
WORRYING
AT RISK OF MAKING IT
HARDER
TO PROGRESS

90%
19 DAYS ABSENCE
95 HOURS LOST LEARNING
CONCERN
LESS CHANCE OF SUCCESS
AND SIGNIFICANTLY
REDUCES LEARNING

Attendance

- 90% attendance is half a day missed every week
- 90% attendance in one school year is 4 whole weeks of lessons (100 lessons) missed in that year.
- 90% attendance over 5 years of secondary school is half a year of school missed.
- Evidence suggests that, on average, every 17 days of school missed by a student equates to a drop of 1 GCSE grade.

Punctuality

- 10 minutes late each day = 50 minutes of lessons missed each week
- 10 minutes late each day = 2000 minutes (33.3 hours, 5.5 days) every academic year
- 10000 minutes (166.5 hours, 27.5 days) of missed learning from year 7 to year 11.

“Everyday you show up, you’re investing in your future self. Don’t underestimate the power of attendance.”

BE PRESENT

BE PUNCTUAL

Guided Reading Tracker

Date	Title and author	Summary of reading (+interesting or new vocabulary learned)	Signed:	


As part of your library lessons, you are expected to complete **at least 20 minutes** of reading once a fortnight.

To track your reading, you need to complete a row of the table before each library lesson to show details of the book you have read.

Your table also needs to be signed by someone who has witnessed you reading. This will most likely be a parent/guardian but it can alternatively be signed by your tutor, classroom teacher, buddy reader, TA or Sarah in the library.



Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Narrative perspective	The point of view that the story is told from. It might be internal to a specific character or an external narrator
Characteristics	The features and elements that make a character unique
Extended noun phrase	When more than one adjective is used to give detail about a noun
Olfactory imagery	A picture created using sense of smell
Auditory imagery	A visual picture created using sense of sound
Tier 2 vocabulary	
Definition	
Odyssey (n)	An epic journey, spanning time and place
Genesis (n)	The origin of something, e.g. 'this tale had its genesis in chaos'
Myth (n)	An ancient story explaining the early history of a social group
Infer (v)	To make an educated guess about something based on evidence
Moral (n)	A lesson that teaches the difference between right and wrong

Section 2: New Key Skills/Strategies				
Using CPEAT to answer questions		Thesis Statements		
Connective	Organise your ideas by using Firstly...Moreover...Additionally...	<p>A thesis statement lays out what you think about the question so that the person reading your answer understands what you are arguing.</p> <p>There are 5 steps to writing a thesis statement:</p> <ol style="list-style-type: none">1. Where?2. Who/What?3. 'presented as'4. Adjective/phrase5. 'because' <div><p><i>Did Prometheus' crime deserve this punishment?</i></p></div> <p>In Prometheus's case, stealing the fire to help humans is presented as a kind act because they were suffering.</p>		
Point	Using the words of the question you make a point to answer it			
Evidence	You choose some words from the text to prove your point			
Analyse	You analyse how the words that you've chosen prove the point that you've made and what the impact could be on the reader			
Think				
<p>Example</p> <p><i>How does the writer present Orpheus's feelings towards Eurydice?</i></p> <p>(P) The writer presents Orpheus's feeling towards Eurydice as loving.</p> <p>(E) When Eurydice is killed, the story says that Orpheus's "grief was overwhelming."</p> <p>(AT) Overwhelming suggests that it took over every part of this life and he couldn't think of anything else which shows how much he loved Eurydice.</p>				
Section 3: New Knowledge				
Myth Origins	Creation	Hero	Monster	Underworld
Greek	Prometheus created the first humans from mud and clay.	Odysseus went on an epic journey	Cerberus guards the entrance to hell.	Hades is God of the Underworld, guarded by Cerberus
Norse				

7

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Algebra	The use of letters or symbols to represent unknown values.
Equation	Shows two things as equal and can be solved to find an unknown, or variable amount.
Formula	A rule used to find a value.
Factor	A factor of a number can divide into that number without remainder.
Factorise	To use brackets in an expression to show a common factor.
Coefficient	The numerical multiplier for any variable in an expression/equation.
Simplify	To write in a simpler form by collecting common terms.

Tier 2 vocabulary	
Term	Definition
Term	A single number or variable
Expression	A "bit of algebra" with a minimum of two numbers/variables and at least one operation.
Variable	A quantity that may change within the context of a problem.
Subject	The unknown number we need to find the value of.
Collecting terms	Simplifying an expression by combining "like terms"
Solve	Numerical value that satisfies the equation.
Substitute	To replace a variable with a particular number, often to evaluate and expression or formula.
Product	The result of a multiplication.

Section 2: Knowledge/Skills

Modelling with Bars: "I buy 3 packs of bananas and 2 loose ones. My friend buys 1 pack of bananas and 10 loose ones. We both have the same number of bananas"

Here let b represent the number of bananas in a pack. The totals are the same so the bars are of equal length:

Me: $\boxed{b} \boxed{b} \boxed{b} \boxed{2}$

Friend: $\boxed{b} \boxed{10}$

Forming an Equation and Simplifying

$$b + b + b + 2 = b + 10$$

$$3b + 2 = b + 10$$

Forming an Equation

"Add two to a number and multiply the result by three. The result is fifteen."

$\boxed{x} \boxed{+2} \boxed{x} \boxed{+2} \boxed{x} \boxed{+2}$

$3(x+2) = 15$

15

Expanding Brackets and Collecting Like Terms

$\boxed{x} \boxed{x} \boxed{x} \boxed{+2} \boxed{+2} \boxed{+2}$

$3x + 6 = 15$

15

Factorising into Brackets

$\boxed{x} \boxed{x} \boxed{x} \boxed{x} \boxed{+10} \boxed{+10} \boxed{+10} \boxed{+10}$

$4x + 40 = 120$

120

$\boxed{x} \boxed{+10} \boxed{x} \boxed{+10} \boxed{x} \boxed{+10} \boxed{x} \boxed{+10}$

$4(x+10) = 120$

120

Section 3: Questions

Simplify the following expressions

- $3x + 2y + 5x + 4y$
- $7a + 3b + a + 2b$
- $5m + n + 4m + 2n$
- $x + 3y + 6x - 2y$
- $6a + 2b + 5a - 7b$
- $2x + 3x^2 + x - 7x^2$
- $9m - 4m^2 - 7m - 2m^2$

Expanding the following brackets

- $4(x + 6) =$
- $3(x + 3) =$
- $5(x - 2) =$
- $2(5x + 8) =$
- $x(x + 2) =$

Factorise the following expressions

- $2x + 6 =$
- $3t + 9 =$
- $5a - 15 =$
- $12e - 18 =$

Expand and simplify

- $5(x + 6) + 3(x + 2) =$
- $6(x + 2) + 2(x - 8) =$
- $2(x + 1) - 2(x - 1) =$

Maths watch revision links

<https://vle.mathswatch.co.uk/vle/browse/768/practice/1>
<https://vle.mathswatch.co.uk/vle/browse/771/practice>
<https://vle.mathswatch.co.uk/vle/browse/770/practice>

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Cube root	The opposite of cubing a number
Exponent	Also known as 'index' or 'power'. It is a number, positioned above and to the right of another (the base), indicating repeated multiplication when it is a positive integer
Highest common factor (HCF)	The greatest factor that will divide into two or more numbers
Lowest common multiple (LCM)	The smallest number that two or more numbers share - the first multiple that they both have in common
Prime factor decomposition	The process of breaking a number down into its prime factors
Square root	The opposite of squaring a number
Venn diagram	A diagram made of circles that shows the relationship between groups of different things
Prime number	A prime number is a number with exactly two factors, 1 and itself
Factor	An integer that divides exactly into a whole number without a remainder The factors of 20 are 1, 2, 4, 5, 10, 20
Tier 2 vocabulary	Definition
Multiple	numbers that can be divided by other numbers The multiples of 3 are 3, 6, 9, 12, ...
Integer	A whole number
Square	When we square a number, we multiply it by itself.
Cube	number multiplied by itself twice
Product	The result after a multiplication
Maths watch revision links	
https://vle.mathswatch.co.uk/vle/browse/755/practice https://vle.mathswatch.co.uk/vle/browse/756/practice https://vle.mathswatch.co.uk/vle/browse/754/practice	

Section 2: Knowledge/new skills

Square numbers

$$\begin{array}{lll}
 1^2 = 1 \times 1 = 1 & 6^2 = & 11^2 = \\
 2^2 = 2 \times 2 = 4 & 7^2 = & 12^2 = \\
 3^2 = 3 \times 3 = 9 & 8^2 = & 13^2 = \\
 4^2 = 4 \times 4 = & 9^2 = & 14^2 = \\
 5^2 = 5 \times = & 10^2 = & 15^2 =
 \end{array}$$

Square roots

$$\begin{array}{lll}
 \sqrt{1} = 1 & \sqrt{196} = & \sqrt{64} = \\
 \sqrt{4} = 2 & \sqrt{25} = & \sqrt{9} = \\
 \sqrt{16} = 4 & \sqrt{225} = & \sqrt{16} =
 \end{array}$$

Cube numbers

$$\begin{array}{l}
 1^3 = 1 \times 1 \times 1 = 1 \\
 2^3 = 2 \times 2 \times 2 = 8 \\
 3^3 = 3 \times 3 \times 3 = 27 \\
 4^3 = \\
 5^3 =
 \end{array}$$

Cube roots

$$\begin{array}{l}
 \sqrt[3]{1} = \\
 \sqrt[3]{8} = 2 \\
 \sqrt[3]{27} = 3 \\
 \sqrt[3]{64} = 4 \\
 \sqrt[3]{125} =
 \end{array}$$

Prime numbers

2, 3, 5, 7, 11,

These numbers are prime as they can only be divided by 1 and themselves.

6 is not prime as you can divide it by 1, 2, 3 and 6.

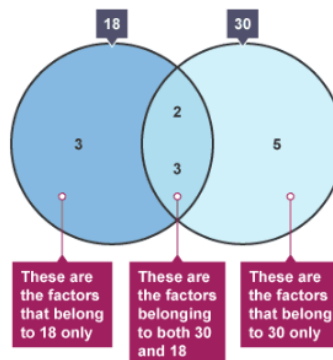
Finding the HCF and LCM

Example – find the LCM and HCF of 18 and 30

Write the numbers as product of their prime factors

$$18 = 2 \times 3 \times 3 = 2 \times 3^2$$

$$30 = 2 \times 3 \times 5$$



LCM is simply a matter of multiplying all the numbers in the Venn diagram together:

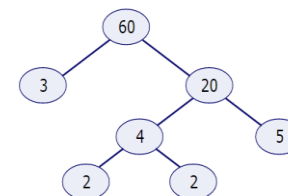
$$\text{LCM} = 3 \times 2 \times 3 \times 5 = 90$$

To find the HCF we multiply the numbers in the overlapping quadrant together:

$$\text{HCF} = 2 \times 3 = 6$$

Section 2: Continued

Prime factor decomposition



$$60 = 2 \times 2 \times 3 \times 5$$

In index form $2^2 \times 3 \times 5$

Using your calculator

Square button



Cube button



Square root button



To cube root press shift then the square root button

Section 3: Problem solving tasks

Correct the following answers, what mistakes have been made?
 $6^2 = 12$

$$\sqrt{100} = 50$$

$$\sqrt[3]{15} = 2.46 \text{ (to 2 decimal places)}$$

15 Questions

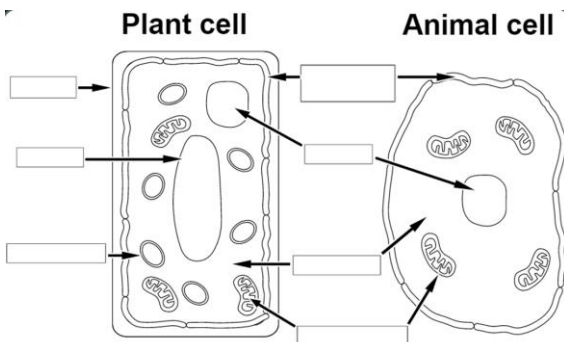
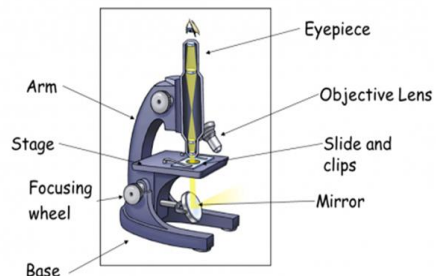
- Write down the square root of 196
- Write down 6 multiples of 8
- Write down the factors of 100
- List the first 10 prime numbers
- Calculate the square root of 2
- Write down the cube root of 64
- Write down the squared numbers up to 15^2
- Write down the factors of 24
- Write 80 as a product of its prime factors
- Write 56 as a product of its prime factors
- Calculate the HCF and LCM of 45 and 60
- Use your calculator to find 65^2
- Use your calculator to find the cube root of 658503
- What answer do you get if you cube root any number then cube it?
- Calculate the HCF and LCM of 120 and 70

Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
Microscope	A piece of apparatus used to magnify small things
Magnify	To make an object look bigger
Lens	Curved glass that bends light to magnify the object
Slide	Rectangle of glass used to put the specimen on
Stage	The part of the microscope you put the slide on
Focus Wheel	Wheel that focuses the image
Cover Slip	Tiny thin piece of glass to cover the specimen
Cell	The building block all living things are made of
Cytoplasm	The jelly like substance inside the cell where all the cells reactions occur
Cell Membrane	Part of the cell which controls what goes into and out of the cell
Mitochondria	Part of the cell where respiration occurs and releases energy
Chloroplast	Part of a plant cell where photosynthesis occurs
Cell Wall	Outer layer of a plant cell that supports and protects the cell
Vacuole	Part of a plant cell that stores water and other substances.
Specialised Cell	A cell which has particular special features that allow it to do its function
Tissue	A group of the same cell working together to perform a function.
Organ	A group of tissues working together to perform a function.
Organ System	A group of organs working together together to perform a function.

Section 2: New Knowledge/Skills

Using a microscope



Task 1 - Use the Key Vocab list to label the plant and animal cells

Task 2 - Complete the table below with organs in each system.

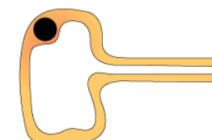
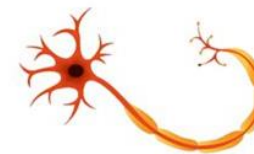
Organ System	Organs involved
Circulatory System	
Breathing System	
Digestive System	
Nervous System	

Section 3: Other subject specific things

Specialised Cells

Name these specialised cells and add if they are plant or animal cells.

EXT: Give one adaptation for each

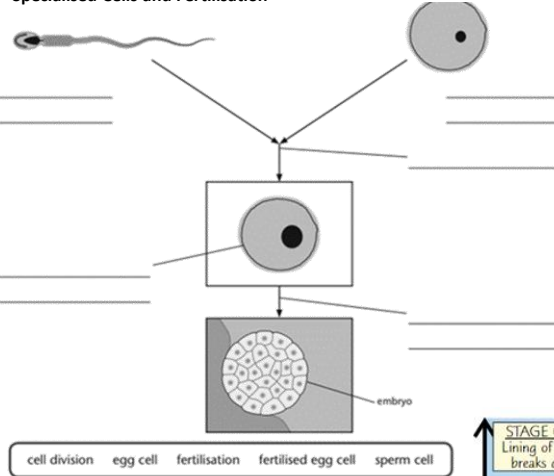


Section 1: Key Vocabulary

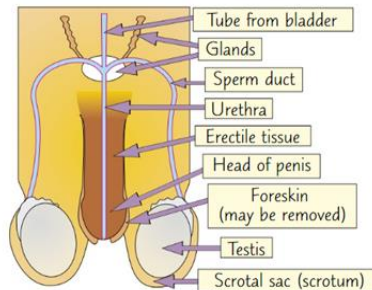
Tier 3 vocabulary	Definition
Sperm	The male sex cell (gamete)
Egg	The female sex cell (gamete)
Fertilisation	The process where the sperm and egg join
Ovary	The place where the eggs are released
Oviduct	The tube that connects the ovary to the uterus
Uterus	The place where a baby would develop in pregnancy
Testis	The place where the sperm are made
Penis	The male reproductive organ that pass semen and urine from the body.
Menstrual Cycle	Series of events lasting about a month, in the female reproductive system.
Ovulation	The release of the egg from the ovary. Happens in the middle of the menstrual cycle.
Implantation	The process of a fertilised egg attaching to the uterus lining
Umbilical Cord	The cord that connects the baby to the mothers placenta. Allows essential substances to pass between the mother and baby.
Placenta	The organ where substances are exchanged between the mothers and baby's blood.
Tier 2 vocabulary	Definition
Pregnancy	The 9 months it takes for a baby to grow in the uterus
Identical Twins	Two babies with the same DNA, they develop from the same sperm and egg
Non-identical Twins	Two babies with different DNA. They develop from two sperm and two eggs
Puberty	Time when big physical changes happen in the body of a teenager
Hormones	Chemicals released from the ovary and testis which cause puberty.

Section 2: New Knowledge/Skills

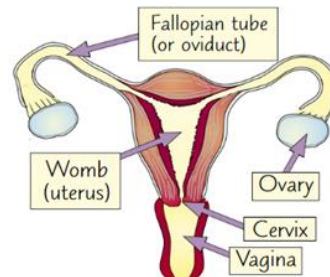
Specialised Cells and Fertilisation



Male reproductive System

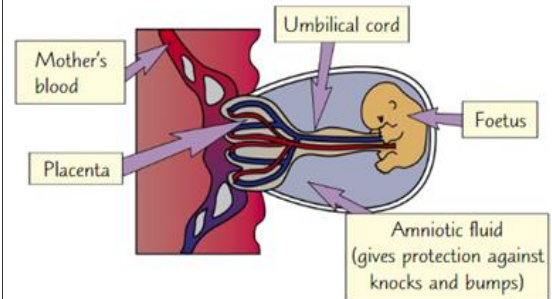


Female Reproductive System

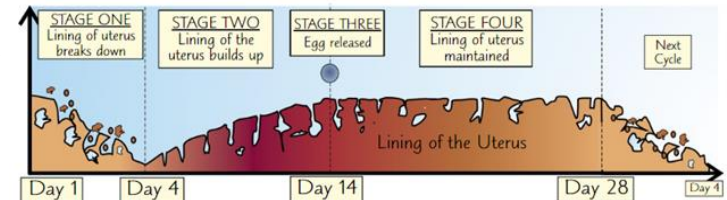


Section 3: Other subject specific things

Pregnancy



Menstrual Cycle and Menstruation



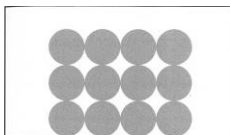
Task - Quick Quiz Questions

1. What specialised features do the sperm and egg have?
1. Where are the sperm made?
1. Where are the eggs made?
1. What happens at fertilisation?
1. How long does pregnancy in humans last?
1. What connects the baby to the mothers placenta?
1. What is the function of the amniotic fluid?
1. How is the common name for menstruation?
1. What happens at day 14 of the menstrual cycle?

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Property	The way a substance behaves
Evaporation	The change of state from a liquid to a gas
Boiling point	The temperature at which a substance boils
Melting point	The temperature at which a substance melts
Classifying	Separating materials into groups based on their properties
Soluble	A material which can dissolve in a liquid
Insoluble	A material which cannot dissolve
Filtration	Separates an insoluble solid from a mixture
Crystallising	Separates a soluble solid from a solution.
Chromatography	Separating mixtures of soluble substances from a solution.
Tier 2 vocabulary	
Melting	The change of state from solid to liquid
Boiling	The change of state from liquid to gas that occurs when bubbles of the substance form

Section 2: New - Particles and changes of state

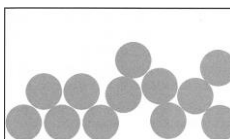
Solids



In a solid the particles are arranged in regular rows.

Solids cannot be compressed and do not flow.

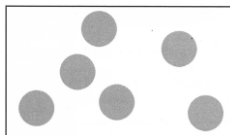
Liquids



In a liquid the particles are arranged randomly.

Liquids can flow and they change shape to fit their container.

Gases

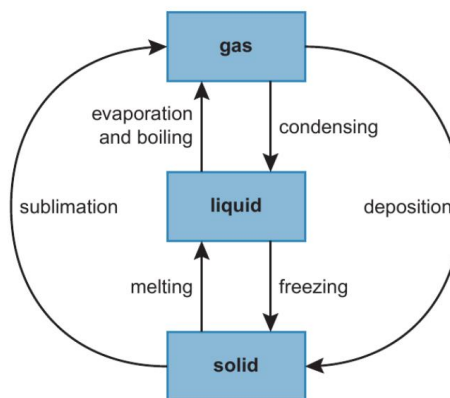


In a gas the particles are arranged randomly with a lot of space between them.

Gases can expand to fill their containers.

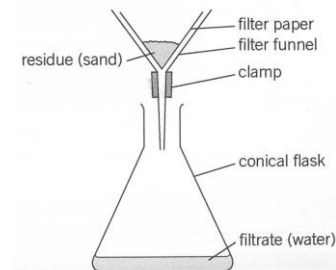
Changes of State

Changes of state are when a material changes from one state of matter to another (e.g. when a solid melts). Changes of state are **physical changes** and can easily be reversed.

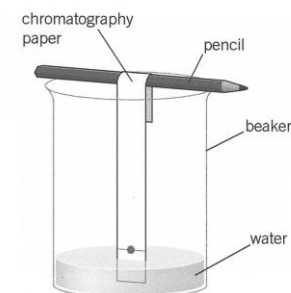


Section 3: Separation techniques

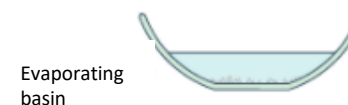
Filtration - separates an **insoluble** solid from a mixture. The solid is called the **residue** and the liquid is called the **filtrate**.



Chromatography - Separates mixtures of liquids (e.g. mixtures of inks).



Crystallisation - separates a soluble substance from a mixture



Q1 - How would you separate a mixture of sand and water?

Q2 - How would you collect salt from salty water?

Q3 - How would you separate a mixture of inks?

Q4 - When filtering a mixture where would you find the residue?

Q5 - Describe how the particles are arranged in a solid, a liquid and a gas.

Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
Resultant force	Single force which can replace all forces acting on an object and have same effect.
Gravitational field strength (g)	The force from gravity on 1 kg (N/kg).
Upthrust	The upward force that a liquid or gas exerts on a body floating in it.
Thrust	Force from an engine or similar
Tension	Force extending or pulling apart.
Static	Non-contact force from charges
Non-contact force	One that acts without direct contact
Field	The area where other objects feel a force.
Magnetic	Material affected by magnetic fields
Electromagnet	Magnet produced by electric current
Tier 2 vocabulary	Definition
Weight	The force of gravity on an object (N).
Mass	The amount of stuff in an object (kg).
Friction	Force opposing motion, caused by the interaction of surfaces moving over one another. Called 'drag' if one is a fluid.
Substitute	Replacing words with numbers or symbols
Independent variable	The variable in an investigation you will change
Dependent variable	The variable in an investigation that you will measure
Control variables	Variables you need to keep the same to make the test fair (accurate)

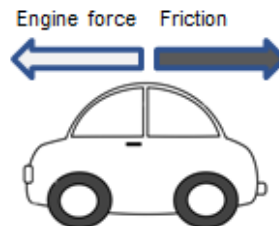
Section 2: New Knowledge

Forces are measured with a **Newton Meter**, in the unit **Newtons (N)**

Forces are represented by arrows, the size and direction of the arrow tells you the size and direction of the force

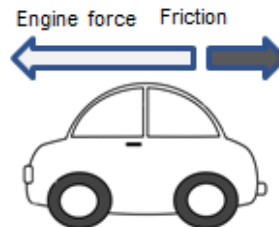
Balanced forces (equal and opposite)

- Stationary
- Constant speed



Unbalanced forces (unequal or different directions)

- Accelerate
- Decelerate
- Change direction



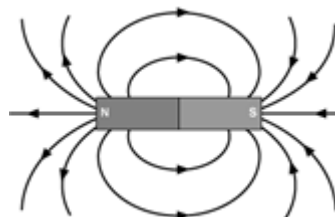
Drag always acts in the opposite direction to which an object is moving. Tries to slow things down.

Streamlining reduces drag, to allow things to move faster.

$$(\text{average}) \text{ speed (m/s)} = \frac{\text{distance (m)}}{\text{time taken (s)}}$$

Magnetic fields around a bar magnet

Opposite poles **Attract**
Like poles **Repel**



Section 3: Skills

Investigative skills

Variables (Something that could change in an investigation)

- Independent variable** – The one you change/are investigating the effect of
- Dependent variable** – The one you will measure/your results
- Control variables** – The variables you need to keep the same in order to make the experiment accurate (fair test)

Planning (Method writing)

Step-by-step numbered **instructions** on how to complete a practical.

If someone could reasonably ask **HOW** from your method it needs more detail

Always include **Repeats** and **average**!

e.g.

Measure the Distance...

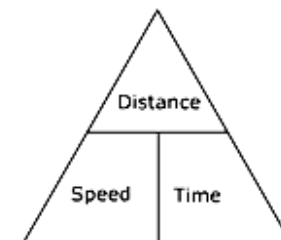
HOW?

...using a tape measure

Maths skills

Rearranging equations

1. **List** what you're given and what you need to find (*check units*)
2. Write an **equation** with these things in
3. **Substitute** numbers or symbols in for the words
4. Put into a **triangle**
5. Use a **calculator** to find answer
6. Write **units**
7. **Check** answer



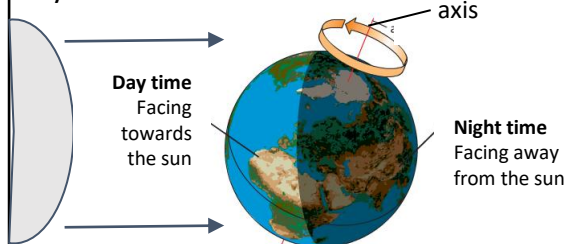
Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
Galaxy	Collection of stars held together by gravity. Our galaxy is called the Milky Way.
Orbit	Path taken by a satellite, planet or star moving around a larger body.
Axis	An imaginary line about which a body rotates.
Moon Phases	The shape of the Moon's directly sunlit portion, as viewed from Earth
Eclipse	A blocking of the light from one celestial body by the passage of another between it and the observer or between it and its source of illumination.
Hemisphere	A half of the earth, usually as divided into northern and southern halves by the equator
Lunar month	The time it takes the moon to orbit the earth once
Dwarf planet	a celestial body like a small planet but lacking certain criteria

Tier 2 vocabulary	Definition
Stars	Bodies which give out light, and which may have a solar system of planets.
Satellite	Object orbiting around a planet, either natural or man-made e.g our moon
Planet	Object of large enough mass, roughly spherical which clears its local orbit around a star
Solar system	A star together with the group of celestial bodies that are held by its attraction and orbit around it
Equator	A line drawn on the earth equal distance from the poles, dividing the earth into northern and southern hemispheres
Year	The time it takes a planet to orbit a star, usually given in earth days
Day	The time it takes a planet to rotate about its axis once, measured in hours

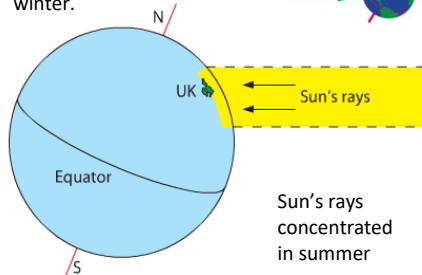
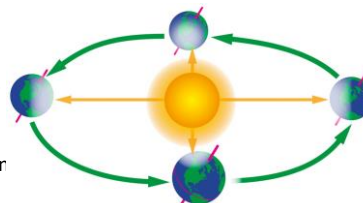
Section 2: New Knowledge

Day and Night



The Earth takes **24hrs** to rotate on its axis once, this is one day and is why the sun appears to rise in the east and set in the west.

When the northern hemisphere is pointed towards the sun it has summer, the southern hemisphere will be in winter.



Ways of investigating space

Find examples of each and where they can be used.

- **Telescopes**
- **Probe**
- **Satellite**
- **Lander or rover**

Section 3: Skills

Research

Used to stimulate debate, challenge and benefit your deeper knowledge

1. Determine/list the key details you need to know (list the **key words/phrases** you could look up)
2. **Search** only the important key words (not whole sentences), if this doesn't work, add more specific detail (use "quotation marks" for words in order)
3. **Scroll** through beyond the first few results
4. Check the **website** address (the http:// part), does it look sensible, then click this to go to actual website not just google (this address is reference not google)
5. **Read** the information and maybe **check** from two sources before you use it (ask yourself; do you understand it, does it answer the question you asked, is it a trustworthy site/author, is the information enough, is it what you actually want?)
6. **Do not** copy and paste information this is **plagiarism** and is illegal.
7. Having read the information, write out an answer to the questions you wanted in your **own words**! Best to do this without looking at the original source.
8. Write **rough** notes first.
9. If you wish to copy a direct **quote** from a source then it must be in "quotation marks" and referenced.
10. **Reference** where you got information from, giving the title of book or website and the author if given.
11. **Present** all you information and references with any **relevant** diagrams in a suitable format

Sources of information

- **Books** can be borrowed from a library or read online
- **Internet** (use google to search, do not copy straight from google, click the link to the website)
- **Specialist adults** ensure the person you quote has accurate knowledge

Task

Now use your skills to research and produce a leaflet about the planets and solar system (including asteroid belt). It should include information on key facts such as **temperature, day length and year length, distance from the sun**, other interesting facts.

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Physical	What our planet is like, features of the natural world.
Human	Features created by people. How and where people live and earn a living.
Environmental	How humans affect the natural world. This could be positive or negative impacts.
Cartography	The drawing of maps.
Continent	One of several large land masses of the world. (There are 7 main continents).
Country	A nation with its own government.
Four-Figure Grid References	A four-figure grid reference points you towards a particular square on a map. On OS maps these squares represent one square kilometre.
Six-Figure Grid References	A six-figure grid reference points you towards a specific point within a square on a map.
Spot Height	Shows the height of a specific point and is marked on an OS map using a black dot and the number in metres.
Contour Line	A line on a map joining places of equal height above sea level.
Map Key	This shows the reader what the map symbols mean.
Scale	The scale of a map is the ratio of a distance on the map to the corresponding distance on the ground, in real life.
Ordnance survey (OS)	The national mapping agency in the UK. They produce detailed maps of the UK.
Latitude	These lines show how far north or south from the equator a place is located. The line of latitude that divides the Earth into the northern and southern hemisphere is known as the Equator. This is line 0°.
Longitude	These lines show how far east or west from the Prime Meridian a place is located. The Prime Meridian (also known as the Greenwich Meridian) is line 0° and passes through the UK.

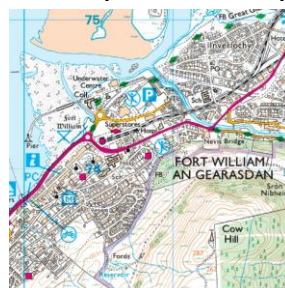
Section 2: New Knowledge

Think like a geographer:

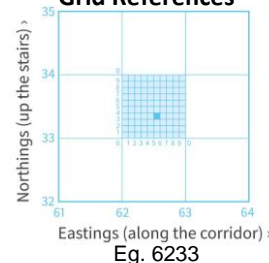
- Where is this place?
- What is it like?
- Why is it like this?
- How is it changing?
- Who is affected by the changes?
- How do I feel about it?



An Example of an OS Map



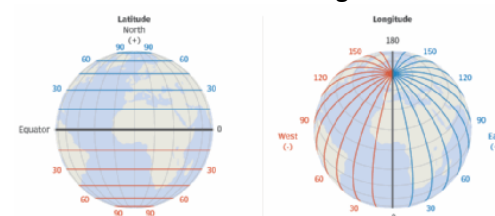
Four and Six Figure Grid References



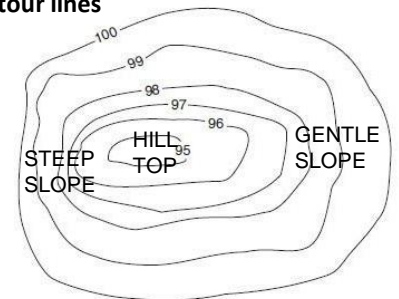
An Example of an aerial photograph



Latitude and Longitude



Contour lines



Section 3: Geographical Skills

- Locate and describe places using latitude and longitude
- Demonstrate ability to use OS maps, scale, grid references, height, direction, with aerial photos

Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
Sources	Where information is gathered from in history.
Anglo Saxons	Come from the Angles and the Saxons. Settled in Europe from the 5 th century.
Feudal System	A way of organising society into different groups based on their roles. King at the top with all of the control, and the peasants at the bottom doing all of the work.
Normans	People from the Norman region in France, led by William the conqueror.
Feigned Retreat	An Army pretends to withdraw to lure their enemy into vulnerability.
Tier 2 vocabulary	Definition
Rebellion	Where people fight against their ruler
Monk	A man who devotes his life to god
Oath	A promise of loyalty

Section 2: Unit Summary

1. Did the Normans bring a 'truck load of trouble' to England?

In 1066, William the Conqueror defeated the Saxons at the Battle of Hastings. England was now under Norman rule. This unit explores what Saxon England was like and the consequent changes and continuities under the Normans. At the end of the Unit, you will come up with your own judgement – did the Normans bring a 'truckload of trouble' to England?

1. What is English history usually like to learn about?

What is Historian Simon Schama saying about the impact of the Norman Conquest on England?

2. How can history be 'traumatic'?

"Historians like a quiet life, and usually they get it. For the most part, history moves at a deliberate pace, working its changes subtly and incrementally. Nations and their institutions harden into shape or crumble away like sediment carried by the flow of a sluggish river. English history in particular seems the work of a temperate community, seldom shaken by convulsions. But there are moments when history is unsubtle; when change arrives in a violent rush, decisive, bloody, traumatic; as a truck-load of trouble, wiping out everything that gives a culture its bearings - custom, language, law, loyalty. 1066 was one of those moments."

3. What kind of things were 'wiped out' by the Normans?

Simon Schama, A History of Britain, 2000.

Second Order Concept = Change + Continuity

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Atheist	Someone who doesn't believe in God.
Humanist	Someone who believes in the power of human beings to solve all our problems.
Burka	A garment worn by Muslim women that covers the entire body.
Oppression	Prolonged cruel and unfair treatment.
Devotion	Faithfulness to something you believe.
Creation stories	Religious explanations of the origins of the universe.
Genesis	The first part of the Bible containing and account of the creation of the world.
Darwin	Charles Darwin discovered the Theory of Evolution.
Evolution	The development of complex organisms from a simple common ancestor.
Natural Selection	Creatures with beneficial features survive longer and pass those features on to their offspring.
Social Darwinism	Applying "survival of the fittest" to human society.
Extremism	Having extreme political or religious views.
Terrorism	The systematic use of violence or threat to force people to do what you want.
Stereotype	An oversimplified image or idea of a particular type of person.

Section 2: Key Questions
<p>Darwin</p> <p>The theory of evolution which Charles Darwin developed during his voyage on the Beagle, argues that all living creatures have evolved through processes he called 'Natural Selection' and when he eventually published this idea in his famous and brilliant biology book 'The Origin of Species', many people took it as an attack on the biblical creation story: 'In the beginning God created the Heavens and the Earth in 6 days and rested on the seventh day.</p>
<p>Extremism</p> <p>Free speech is one thing, but using violence to impose your views on others is the opposite of free speech. Religion comes in here, because some minority religious groups in various different religions reject the freedom of others to hold contrary views and seek, by violence or force, to impose their ideas.</p>
<p>Forgiveness</p> <p>"Holding a grudge doesn't make you strong, it makes you bitter. Forgiving doesn't make you weak, it makes you free".</p> <p>For religious people, forgiveness is an important concept. They know they have done wrong things (sins) in their lives so want to be forgiven by God for those. But first, they have to forgive people who have wronged them. Even though this is hard, they explain it helps them to move forward without bitterness.</p>
<p>Goddesses</p> <p>For religious people, forgiveness is an important concept. They know they have done wrong things (sins) in their lives so want to be forgiven by God for those. But first, they have to forgive people who have wronged them. Even though this is hard, they explain it helps them to move forward without bitterness.</p>

Section 3: Assessment Essay Question:
<p>Assessment Essay Questions:</p> <p>How do atheists decide questions about right and wrong and the meaning of life?</p> <p>Are religious dress codes sometimes sexist? What should be done about that?</p> <p>Is the human race made from love, for love, or are we an almighty accident, a huge slice of cosmic luck?</p> <p>Why might more American Christians be creationists than British Christians?</p> <p>How can a free society cope with the tension between extremist views and free speech?</p> <p>Skills checklist – As you write your essay check that you have included... Knowledge – facts and religious or non-religious beliefs, Impact of belief – how it affects what people think and do,</p> <p>Specialist terms</p> <p>Sources of authority – where people get their ideas/beliefs from – quotations, Judgement – how strong, valid or sound the argument is, Opinion – at least 2 different points of view</p>

Section 1: Key Vocabulary/Questions		Section 2: Grammar		Section 3: WAGOLL & phonics				
Tier 3 vocabulary	Definition	<div><div>Verb AVOIR [to have, having]</div><div><div>j'aiI have</div><div>tu asyou have</div><div>il ahe/it has</div><div>elle ashe/it has</div></div><div>J'ai un animal. > I have a pet. Il a une idée > He has an idea.</div></div> <div><div>Verb ÊTRE [to be, being]</div><div><div>je suisI am</div><div>tu esyou are</div><div>il esthe/it is</div><div>elle estshe/it is</div></div><div>Je suis anglais. > I am English. Tu es petit. > You are small.</div></div>		<div><div>Un dialogue</div><div>A: Salut! B: Bonjour! Comment tu t'appelles ? A: Je m'appelle Béa. Et toi ? B: Je m'appelle Laurent. Ça va Béa ? A: Oui, ça va bien merci. Et toi ? B: Oui, ça va très bien. Laurent, tu es comment ? B: Je suis très grand et un peu triste. Et toi ? A: Je suis française et je suis assez intéressante. Quel âge as-tu ? B: J'ai onze ans. Tu as des frères et sœurs ? A: Oui, j'ai un frère qui s'appelle Julien. Et toi ? B: Non, je suis enfant unique mais j'ai un chien qui est noir et très petit. A: Tu aimes ton collège ? B: Oui, c'est super ! Il y a des chaises et des tables modernes. Aussi, j'aime étudier ! C'est quand, ton anniversaire ? A: Mon anniversaire, c'est le trente juin.</div><div>Et toi ? And you?</div></div>				
verb (vb)	is a word used to describe an action, state or occurrence.							
adjective (adj)	tells more about a noun							
noun (nf/nm)	is a naming word/ a thing							
gender	a French noun is either masculine or feminine							
intonation	the rise and fall of the voice							
statement	a definite or clear expression of something							
Pronoun (pron)	a word that is used instead of a noun							
Conjunction (conj)	a word used to connect clauses							
Questions	Translation							
1. (Comment) ça va?	How's it going?							
2. Comment tu t'appelles/t'appelles-tu ?	What's your name?							
3. Comment ça s'écrit ?	How do you spell that?							
4. Tu as des frères et sœurs ?	Do you have brothers and sisters?							
4. Quel âge as-tu ?	How old are you?							
5. Qu'est-ce qu' il y a... ? Qu'est-ce que c'est ?	What is there...? What is it?							
6. Tu aimes...?	Do you like...?							
7. Tu es comment ?	What are you like?							
8. C'est quand, ton anniversaire ?	When is your birthday?							



FRENCH Y7 Word list Autumn A		
	salut	hi/bye
	Je m'appelle	I am called...
	ça va	I'm fine
	ça va?	How are you?
	oui	Yes
	non	No
	pas mal	not bad
	bien	well
	et toi ?	and you?
	merci	thank you

FRENCH Y7 Word list Autumn B		
	bonjour	hello
	au revoir	goodbye
	enfant unique	an only child
	une sœur	a sister
	un frère	a brother
	avoir	to have/having
	J'ai	I have/am having
	il a	He has/he is having
	elle a	She has/is having
	et	and

FRENCH Y7 Word list Autumn C		
	ans	years
	onze	11
	un	one/a/an (m)
	une	one/a/an (f)
	des	some (m/f pl)
	vrai	true
	faux	false
	aussi	also/too
	triste	sad (m/f)
	moderne	modern (m/f)

FRENCH Y7 Word list Autumn D		
	aimer	to like/liking
	le	the (ms)
	la	the (fs)
	les	the (m/f pl)
	j'aime	I like
	mais	but
	je n'aime pas	I don't like
	Tu aimes?	Do you like..?
	le collège	secondary school (Y7-9)
	c'est	it is

FRENCH Y7 Word list Autumn E		
	assez	quite
	très	very
	trop	too
	un peu	a little
	je suis	I am
	je ne suis pas	I am not
	il/elle est	he/she is
	qui	who
	grand(e)	big/tall (ms/fs)
	petit(e)	small/short (ms/fs)
	timide	shy

FRENCH Y7 Word list Autumn F		
	Ma vie	my life
	chanter	to sing/singing
	danser	to dance/dancing
	rencontrer	to meet up with/meeting up with
	mes amis	my friends
	tchatter	to chat online
	rigoler	to have a laugh/having a laugh
	étudier	to study/studying
	nager	to swim/swimming
	jouer	to play/playing

FRENCH Y7 Word list Autumn G		
	il y a/ il y a ..?	there is/are, is/are there..?
	un stylo	a pen
	un cahier	an exercise book
	un crayon	a pencil
	un taille-crayon	a pencil-sharpener
	un livre	a book
	une trousse	a pencil case
	une règle	a ruler
	une gomme	a rubber/ eraser
	une table	a table
	une chaise	a chair

REVISION: Scan the QR code to access the word lists on [Quizlet!](#)

Learning these phonic sounds below will help you to pronounce written French more confidently and to recognise and spell words you hear.

Silent final consonant (SFC)

Something that makes French sound different from English is that **some consonants** at the ends of words are silent. This means you don't pronounce them at all!

Phonics: SFC (silent final consonant)	
salut	ans
et	trois

Phonics: un une	
un	une
lundi	la lune

Phonics: SFE (silent final 'e')	
Je m'appelle	unique
elle	moderne

Phonics: en/an/on	
content	non
garçon	intéressant

Phonics: j/ ge	
je	J'aime
le collège	page

Phonics: a	
ça va	mal
salut	crayon

Section 1: Key Vocabulary/Questions

Tier 3 vocabulary	Definition
verb (vb)	a word used to describe an action or a state
regular verb	follows a pattern when being conjugated
pronoun	used to replace a noun or noun phrase
conjugation	how the verb changes depending on person or tense
1st person	referring to I or we
2nd person	referring to you
3rd person	referring to he, she, it, they
phonics	how certain sounds are written
cardinal number	a number used to show quantity
ordinal number	a number used to show the position of something, e.g. second

Questions	Translation
1. Wie heißt du?	What are you called?
2. Wie geht's?	How are you...?
3. Wo wohnst du?	Where do you live?
4. Woher kommst du?	Where do you come from?
5. Wie alt bist du?	How old are you?
6. Wann ist dein Geburtstag?	When is your birthday?
7. Wie schreibt man das?	How do you spell that?

Section 2: Grammar

Verb SEIN [to be] - irregular	Verb WOHNEN [to live] - regular
ich bin I am	ich wohne I live
du bist you are	du wohnst you live
er/sie/es/ man ist he/she/it is	er/sie/es/ man wohnt he/she/it/ one lives
wir sind we are	wir wohnen we live
ihr seid you are (pl)	ihr wohnt you live (pl)
Sie sind you are (pol)	Sie wohnen you live (pol)
sie sind they are	sie wohnen they live

Ordinal numbers add '*ten*' to the end for numbers 1-19 and '*sten*' to the end for numbers 20 and above

1-eins	1st-ersten
2-zwei	2nd-zweiten
3-drei	3rd-dritten
4-vier	4th-vierten
5-fünf	5th-fünften
6-sechs	6th-sechsten
7-sieben	7th-siebten
8-acht	8th-achten
9-neun	9th-neunten
10-zehn	10th-zehnten
11-elf	11th-elften
12-zwölf	12th-zwölften
13-dreizehn	13th-dreizehnten
20-zwanzig	20th-zwanzigsten
21-einundzwanzig	21st-einundzwanzigsten
32-zweiunddreißig	32nd-zweiunddreißigsten
73-dreiundsiebzig	73rd-dreiundsiebzigsten

Section 3: WAGOLL & phonics

Ein Dialog

A: Guten Tag!
B: Hallo! Wie heißt du?
A: Ich heiße Lena. Und du?
B: Ich heiße Luis.
A: Luis, wie schreibt man das ?
B: Ell-ooh-ee-ess
A: Man schreibt Lena: Ell-ay-enn-aah
B: Wie geht's Lena?
A: Gut, danke. Und dir?
B: Nicht schlecht. Wie alt bist du?Woher kommst du, Lena?
A: Ich bin elf Jahre alt. Wann ist dein Geburtstag?
B: Mein Geburtstag ist am dritten Mai. Woher kommst du, Lena?
A: Ich komme aus München. Wo wohnst du, Luis?
B: Ich wohne in Berlin, in Deutschland.

Gut zu wissen:

Phonics

Learning these SSC (Sound-spelling correspondences) will help you to pronounce written German more confidently and to recognise and spell words you hear.



Wien
[Vienna]



Beine
[legs]



viele
[many]



Lieder
[songs]



Riese
[giant]



Wein
[wine]



Biene
[bee]



Feile
[file]



leider
[unfortunately]



Reise
[journey]



Word list Autumn A			Word list Autumn C			Word list Autumn E			Das Alphabet			
	Guten Morgen	Good Morning		sein	to be		der Geburtstag(e)	the birthday	Wie schreibt man das?			
	Guten Tag	Good Afternoon		ich	I		am ersten	on the first	A	ah	O	oh
	Danke schön	Thank you		du	you (sing. / inf.)		am zweiten	on the second				
	Bitte schön	You're welcome		er/sie/es/man	he/she/it/one		am dritten	on the third	B	bey	P	pey
	wie geht's?	how are you?		wir	we		am siebten	on the seventh	C	tsey	Q	koo
	sehr gut	very well/good		ihr	you (pl. / inf.)		am zwanzigsten	on the twentieth				
	nicht schlecht	not bad		Sie	you (polite)		März	March	D	dey	R	air
	wie heißt du?	what are you called?		sie (pl)	they		Mai	May	E	ey	S	ess
	ich heiße	I am called		elf	11		am	on the	F	eff	T	tey
	Auf Wiedersehen	Goodbye		zwölf	12		wann	when				
									G	gey	U	ooh
									H	hah	V	fow
									I	ee	W	vey
									J	yot	X	iks
									K	kah	Y	upsilon
									L	ell	Z	tsett
									M	em		
									N	en		

Word list Autumn B			Word list Autumn D			Word list Autumn F		
	der Kuli	biro		ich bin	I am		die Länder	the countries
	der Stift	pen		du bist	you are		Deutschland	Germany
	der Radiergummi	rubber		er ist	he is		Österreich	Austria
	der Klebestift	glue stick		sie ist	she is		die Schweiz	Switzerland
	der Bleistift	pencil		man ist	one is		Wien	Vienna
	die Schere	scissors		wir sind	we are		München	Munich
	die Tafel	whiteboard		ihr seid	you (all) are		wohnen	to live
	das Lineal	ruler		Sie sind	you are (polite)		ich wohne	I live
	das Heft	exercise book		sie sind	they are		er/sie wohnt	he/she lives
	das Buch	book/text book		alt	old		wo	where

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Programming constructs	There are 3 key programming constructs: sequence, selection and iteration.
Algorithm	A series of simple, logical, step-by-step instructions that must be followed in a strict sequence.
Sequencing	When a set of instructions is carried out in order.
Selection	A decision or question, which leads to a different branch in the algorithm.
Iteration	When a set of instructions is repeated; also known as a loop.
Variable	A storage location with a given name or identifier. Stores and accesses data while the program is running.
Value	Variables contain values. A value is a number or a piece of text.
Identifier	The label or name given to a variable.
Data	Words, numbers, dates, images, sounds without context, stored
Tier 2 vocabulary	Definition
Problem solving	Identify and understand a problem, finding a structured solution
Predict	Try to state what a program does before you run it
Investigate	Find out why the program behaves in a specific way
Modify	Take some working code and change or adapt it.
Run	Instruct the computer to follow a program
Assignment	Store or keep your code so you can change it or run it later

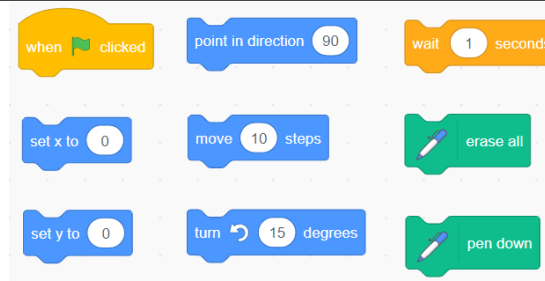
Section 2: New Knowledge and skills



Find Scratch at: <https://scratch.mit.edu/>
It is free, and you can use it on any device. Even your phone!

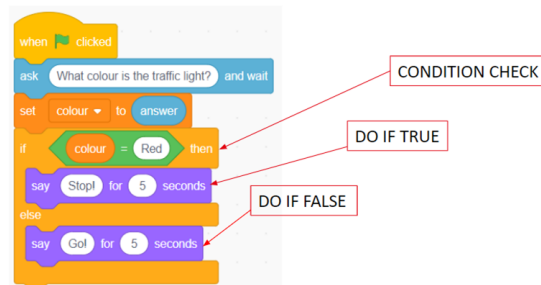


These buttons start or stop your program

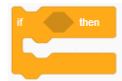
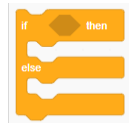


Selection

This is an example of an if-else statement:



If-else statements will perform one action if the condition is True and another if it is False. They will not perform both actions.

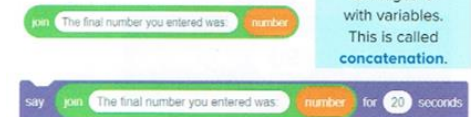


Section 3: Other subject knowledge

- 1 What is a variable?
- 2 How many variables are there in this code? What are the names of the variables?



The 'join' block is used to join text together with variables. This is called concatenation.



You can combine the 'say' block and the 'join' block. This line of code would output The final number you entered was: and then the value that is stored in the number variable.

The 'ask' block displays a message and you can customise what it says in the white area.


The ask block automatically creates a variable called 'answer' that stores whatever is answered by the user. If you want to output the answer straight away, you do not need to create a variable.



Hello Peter you are 24


PE: Basketball

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Stance	'Knees and Squeeze' is great phrase to help you into a good stance with the basketball.
Triple threat position	When holding the ball, always be ready to pass, shoot or dribble.
Jump stop	Land on two feet when you catch the ball from a pass or at the end of a dribble.
Pivot	Turn on the ball of one foot when holding the ball to face a different direction.
Chest pass	Pass the ball in a straight line from your chest to your teammate's chest.
Bounce pass	Push the ball towards the floor so that it bounces up into your teammate's hands.
Travel	An important rule: don't run with the ball or shuffle your feet (use your jump stop and pivot).
Double dribble	Another important rule: once you have dribbled the ball, you cannot start dribbling again.

Section 2: New Knowledge/Skills
<p>In your Year 7 basketball lessons you will spend some time developing your co-ordination by doing a wide range of ball skills to improve your control over the ball with your hands.</p> <p>You will learn the key points of the main skills of basketball including: stance, footwork, passing shooting and dribbling.</p> <p>You will learn to play the game using some of the major rules such as: travel, double dribble, out of bounds. You will learn how to start the game with a 'tip-off' and how to re-start the game after an infringement or after a basket is scored: endline ball/sideline ball.</p> <p>You will also learn how to play the game by following the Top Tips for being a Good Basketball Player. How many of these can you remember?</p>
 <p>holding the ball</p>


PE: Table Tennis

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Grip (handshake grip)	Hold the bat the correct way to help you to play all the different shots effectively. Three fingers round the handle and the finger and thumb on the blade.
Stance	The way you stand: to play table tennis effectively, keep the feet apart and the knees slightly bent.
Service/serve	To start the rally, hit the ball so that it bounces on both sides of the net.
Rally	Playing the ball back and forth with your partner/opponent.
Backhand push	Facing the table, with the bat across in front of your tummy/chest area, push the ball smoothly over the net.
Forehand push/drive	Turn your feet and body slightly towards the same side you hold your bat. Keep your elbow close to your body and push the ball back over the net from your strong side. A harder hit is called a drive.

Section 2: New Knowledge/Skills
<p>In your year 7 table tennis lessons you will work towards being able to play a game of singles with a classmate, knowing the important rules and being able to do the basic skills.</p> <p>Firstly, learning to grip the bat correctly and to take up a good stance will be key to your progress: use the handshake grip.</p> <p>You will learn how to serve the ball to start a rally, trying to make sure the ball bounces on both sides of the net.</p> <p>The basic shots needed to keep the rally going are the forehand and backhand push. The forehand push is played on your strong side and the backhand push with your bat across in front of your body.</p>
 <p>How many rules of the game can you remember?</p> <p>← The handshake grip</p>

PE: Gymnastics

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Routine/sequence	A series of gymnastic movements and skills performed in a flowing given order.
Tension/Extension/Control	The 3 fundamental skills required to hold an aesthetically pleasing balance.
Travel/Transitional Movements	A gymnastic movement through space from one area to another.
Balance	The ability to hold yourself gymnastically within a support base for a minimum of 3 seconds (demonstrating TEC).
Jump	Performing gymnastic shapes and movements in the air.
Roll	A form of gymnastic travel, pivoting around the centre of mass.
Flow	The ability to link gymnastic skills and movements together with no obvious joints (needed during a routine/sequence).

Section 2: New Knowledge/Skills
<p>What do you understand the term aesthetically pleasing to mean? Why is this so important in sports like gymnastics? You should know/demonstrate use of TEC (tension, extension and control) in order to produce high quality balances and also be able to recognise points of balance.</p> <p>Know/demonstrate various methods of gymnastic travel/transitional movements to include hop, jump, slide, crawl, twist, roll.</p> <p>You should be able to perform a simple individual sequence, demonstrating knowledge of or use of the key vocabulary</p> <p>Sequences should incorporate flow between different gymnastic skills and movements.</p> <p>SLD (speed, level and direction) changes should be used to enhance sequences.</p>
 <p>start and finish position</p>

PE: Netball

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Footwork	The landing foot of a player can move until they have passed the ball.
Pivot	Turning on the ball of the foot when holding the ball to face a different direction.
Marking	Standing in front of another player - preventing them from moving or receiving the ball.
Dodging	A method used to move away from a defender.
Passing	Sending the ball to another player.
Signalling	Pointing or indicating to other players to give them useful information.
Centre pass	Method used to start a game or to restart the game after a goal is scored.
Free pass	Method of restarting the game after a foul has been committed.

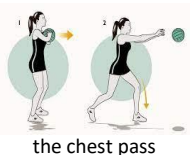
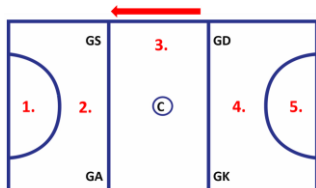
Section 2: New Knowledge/Skills

A key phrase for remembering the footwork rule is: **CLIP - CLOP**

3 keywords to remember when passing a ball are:
STEP - PUSH - POINT

The different types of passing that can be used within a game of netball are: **Chest, bounce, shoulder and overhead.**

The diagram below shows a netball court and the starting positions of each player at a centre pass. Identify the areas each player can go in.



Free passes are awarded for: footwork, offside, held ball

Only the GS and GA can shoot and this must be from within the shooting circle

PE: Hockey

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Grip	Always keep the left hand at the top of the stick. The right hand goes about halfway down the stick.
Stance	The ready position to control, dribble or pass the ball; left foot forward, stick at 45 degrees and head up.
Dribble	Moving the ball along by tapping it, rather than pushing it, with your stick. 'Tap/look, tap/look'.
Block tackle	The most effective way to stop a dribbler. Get your legs wide apart and your stick low to the ground.
Push pass	The safest and most accurate way to send the ball to your teammate: 'put/push/point'.
Reverse stick	Turn that stick over to make sure you always use the flat side of the stick.
Self pass rule	Remember that you can dribble the ball to yourself when restraining the game.
Shooting circle	To make hockey safer, no longer shots are allowed - make sure you are inside the circle when you try to score.

Section 2: New Knowledge/Skills

In year 7 hockey you will learn all the **skills** and **rules** needed for you to be able to safely play a **small-sided game** with your classmates, such as 5v5.



You will learn the key skills of: **grip, stance, dribble, block tackle, push pass and reverse-stick.**

You will learn that in a game you must not touch the ball with your feet or the back of your stick. You will know how to **start** the game (**a pass-back**) and how to **restart** the game after the ball goes out: **sideline ball, top of the circle.**

Watch out for your classmates who use the '**self-pass rule**'!!
A great way to score before the other team are ready!!

PE: Swimming

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Technique	The way you perform something in sport.
Stroke	One of the 4 methods of competitive swimming: front crawl, breaststroke, back crawl, butterfly.
Water confidence	The ability to perform a variety of skills in the water.
Push and glide	Making a strong push from the wall and getting the body fully extended to gain momentum at the start of a width.
Streamlined	Keeping the body in a position - straight and narrow - which reduces water resistance.
Personal survival	Skills which may help a person survive in a dangerous situation.
Treading water	Staying afloat in the same place with minimum effort.
Water polo	A team sport where players try to throw the ball into a goal at the end of the pool.

Section 2: New Knowledge/Skills

It is of vital importance that we follow the **safety rules** in and around the swimming pool. Can you list 3 safety rules that must be followed in your swimming lessons?

You will focus mainly on developing your **technique** in front crawl and back crawl. The two key parts of technique that we will focus on are the arm action and the leg action.

Question - can you describe the key points of the arm and leg actions in front crawl and back crawl?

You will learn and practice a variety of **water skills** and **survival skills** to improve your confidence in the water, including breath holding, underwater swimming and treading water.

Question - Can you list some of the basic rules of **water polo** and describe how to **dribble** and **pass** the ball?



PE: Rugby

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Carry (grip)	How to hold the ball: hold it in two hands with the hands on the sides of the ball (not the ends).
Passing	Send the ball to a teammate using a two-handed swinging action across the body.
Running with the ball	As soon as you catch the ball - run! Try to go forwards with the ball carried in 2 hands.
Try	Placing the ball down on the floor behind the opponents' try-line to score 5 points.
Support	Helping a teammate by running just behind and to the side of them so that they can pass to you.

Section 2: New Knowledge/Skills

In Year 7 we will be playing 'touch' rugby. There is no tackling so that you can focus on learning the skills and how to play the game.

You will learn how to carry the ball and how to pass the ball.



Question - What 2 things should you do as soon as you catch the ball?

You will play small-sided games passing the ball between teammates to get the ball across the try-line.

Question - How many points are awarded for a try and what else happens after a try is scored in a full rugby game.

You will learn how to pass the ball backwards and how to position yourself so that a teammate with the ball can pass backwards to you.

Question - What 'code' of rugby do we play at Belper School?
rugby union or rugby league

PE: Football

Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Passing	Sending the ball to another player.
Receive	Collecting the ball from another player.
Control	Keeping the ball safe when it is collected. This is a cushion action and can be on different levels.
Dribble	Moving with the ball at your feet.
Turn	Changing direction with the ball.
Signalling	Pointing or indicating to other players to give them useful information.
Possession	The team or player in control of the ball.

Section 2: New Knowledge/Skills

Here are some questions to see what you can remember from your football lessons.

List three different types of **pass**.
Name three different body parts that a player can use to **control** the ball.

When might a player choose to **dribble** rather than **pass** the ball?

Which ways of **turning** with the ball have you used in lesson time?

Can you identify one rule for each of the following situations when playing a game:
Kick-off
Throw-in
Goal-kick
Free-kick:



Don't forget to complete the homework task on google classroom once you have completed your football lessons.

PE: Running

New Knowledge/Skills
Running is an important part of our PE programme for 2 main reasons:
Running is essential to being able to play all other sports, and...
Running is the most popular way across the world that people use to keep fit.
Can you list some of the reasons why running is the most popular keep fit activity?
In our Year 7 running lessons, we will develop our ability to run at a steady pace for a long period of time. We will set a target time and understand what a personal best is.

PE: Health and Fitness

New Knowledge/Skills
Throughout PE lessons in Year 7, we will consider the 2 main aims of a warm-up:
1. To reduce the chance of injury
2. To improve performance
You will develop a range of exercises to raise your pulse and prepare your body before exercise and you will learn the names of the key muscles.
Can you name 5 of the major muscles in the body?
Can you demonstrate 10 exercises you can use in a warm-up?

PE: Leadership

New Knowledge/Skills
Leadership is an essential part of all sports and fitness activities.
You will develop your own leadership skills in lessons by helping others to warm-up, by helping others to improve their skills and by officiating some games.
Key question: Why are leaders important in sport?

Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
analysis	Studying an artwork to understand how it was made and its creator's intentions.
medium (plural: media)	The materials used to make art, e.g. pencil on paper, oils on canvas
post-impressionism	A French artistic movement that followed impressionism, roughly spanning 1886-1905.
rhinoceros	A member of one of five species of large, powerful, thick skinned mammals, native to parts of Africa and Asia.
technique	The particular skill or set of skills used to produce an effect.
woodcut	A relief printing technique in which a design is cut into a flat wooden block.

Tier 2 vocabulary

Tier 2 vocabulary	Definition
Albrecht Dürer	A German painter and printmaker, 1471-1528
reed pen	A writing and drawing tool made from a shaped section of reed (hollow plant stem).
stroke	A single movement of a pencil or other tool that makes a single mark.
texture	How a surface feels, or in a drawing how it looks like it would feel, e.g. rough, smooth, bumpy.
tone	How light or dark a part of an artwork is.
tonal range	A continuous range of tones from the lightest to darkest value.
Vincent Van Gogh	A Dutch post-impressionist painter, 1853-1890

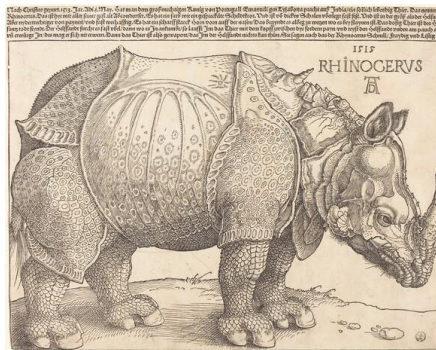
Section 2: Dürer's Rhinoceros

In the mid 16th Century, the king of Portugal was gifted a live rhinoceros, an animal unseen in Europe at that time.

A description of the rhinoceros soon reached Nuremberg, presumably with sketches, from which Dürer prepared a drawing and woodcut.

No rhinoceros had been seen in Europe for over 1000 years, so Dürer had to work solely from these reports. He has covered the creature's legs with scales and the body with hard, patterned plates. Perhaps these features interpret lost sketches, or even the text, which states, '[The rhinoceros] has the colour of a speckled tortoise and it is covered with thick scales'.

So convincing was Dürer's fanciful creation that for the next 300 years European illustrators borrowed from his woodcut, even after they had seen living rhinoceroses without plates and scales. bit.ly/badrhino



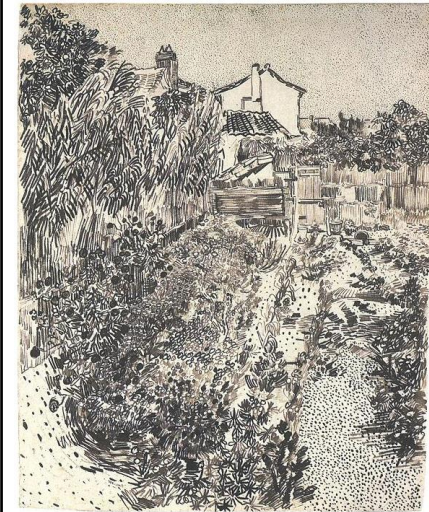
Looking closer

Use the link on this page to view the rhino online. You can zoom in to the image to see the image close up. Compare Dürer's rhino with a photo of an Indian rhino. bit.ly/bsadrhino

How many different textures can you see on Dürer's rhino?

What differences can you see between Dürer's rhino and the photo of an Indian Rhino?

Section 3: A Garden with Flowers



Vincent van Gogh
Drawing, reed pen and ink
Arles: August, 1888

bit.ly/gardenbad

To help you better understand this drawing and other works of art you can use these questions.

Who is this picture by and when was it made?

What part of the image do you notice first?

Can you name any of the marks used?

What time of year do you think it is?

What part of the world do you think this could be?

If this picture were in colour, what colours do you think would be used?

What does it make you feel?

Describe the sounds that you might hear if you were in this picture.

Section 1: Key Vocabulary

Tier 3 vocabulary	Definition
linocut	A relief printing technique in which a design is cut into a flat sheet of linoleum – originally a type of sheet floor covering.
lithographic	A specialised printing technique that uses the properties of oil and water to create a print.
sgraffito	An artistic technique which uses scratching into a surface to make marks.
technique	The particular skill or set of skills used to produce an effect.
underpainting	Paint applied to a surface that will be subsequently covered by other layers of paint.

Tier 2 vocabulary

Tier 2 vocabulary	Definition
ceramics	Pottery – functional items, like plates, bowls & cups, and also sculpture, made from fired clay.
collage	An artistic technique that usually involves cutting out and sticking down shaped paper or fabric to form an image.
illustrator	A person who draws or creates pictures for magazines, books, advertising, etc.
medium (plural: media)	Material(s) used to make an artwork, e.g. watercolour paint.
printmaker	An artist using printed media, e.g. linocut.
surrealism	An early 20 th Century artistic movement, often featuring dreamlike imagery.

Section 2: Paul Klee – Fish

Paul Klee (1879 - 1940) was a Swiss-German artist. His highly individual style was influenced by movements in art that included expressionism, cubism, and surrealism.

Among Klee's works is 'Fish Magic' (painted 1925). This painting features colourful fish against a dark and murky background. Klee scratched into the surface of the wet paint to reveal lighter colours underneath. The illustration below shows a detail of the full painting.



Notice how the scratched lines in the fish's fins reveal lighter underpainting.

bit.ly/fishmagic



Looking closer

Use the link above to view the full Fish Magic painting online. You can zoom in to the image to see the image very close up.

How do you think Klee created the line and texture of the fishes in the painting?

Section 3: Mark Heard

Mark Heard (b. 1974) is a painter and printmaker. Taking his inspiration from the flora and fauna of the British countryside, Mark works across a number of mediums, producing limited edition lithographic and linocut prints, unique paintings, collages and hand-painted ceramics.



bit.ly/bsadmark



Follow the link above to view some other examples of Mark Heard's work. Look for the different ways that Mark Heard has made marks in his work.

The short video linked below explores further examples of Mark Heard's work. In it he discusses his influences and some of his techniques.

bit.ly/bsadheard



Section 1: Key Vocabulary





Tier 3 vocabulary	Definition
Semibreve	A note that last for 4 beats
Minim	A notes that last for 2 beats.
Crotchet	A notes that lasts for 1 beat
Quaver	A notes that lasts for ½ beat. Two quavers fit into one crotchet.
Semiquaver	A note that last for ¼ beat. Four semiquavers fit into one crotchet
Treble Clef	The symbol at the start of the music that tells the player
The Stave	The stave is the set of five lines that the music is written on.

Tier 2 vocabulary

Tier 2 vocabulary	Definition
Melody	The main tune of the music.
Phrase	A musical sentence.
Fluency	The timing and flow of the music in time with the beat
Notation	The way in which the music is written down

Section 2: New Knowledge/Skills

Rhythm Notes

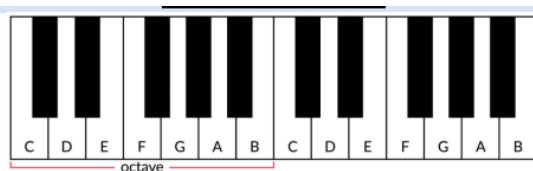
Note Name	Note Symbol	Note Value
Semibreve		4 beats
Minim		2 beats
Crotchet		1 beat
Quaver		½ of a beat

The Treble Clef

At the start of a piece of music we see this symbol .



This is a treble clef, it tells us that the notes are 'treble' or high notes. On the keyboard this is notes from **middle C** and higher.



Middle C

This is C found roughly in middle of the keyboard and looks like this in music Notation

Treble Clef



Middle C

Section 3

Music Notation

The Stave

The notes move by step on the stave and use letters A to G. The note head is positioned either with the line running through it, or in the space between. Mnemonics can be used to help remembers to position of the notes

Every Green Bus Drives Fast.



Notes in the SPACES spell "FACE"



Theory Rocks

The Musical Alphabet

Note Values

Treble and Bass Clef Staves



Section 1: Key Vocabulary

Tier 3 vocabulary Definition

Greek Chorus	The chorus in Classical Greek drama was a group of actors who described and commented upon the main action of a play with song, dance, and recitation.
Synchronised Movement	Synchronized movement is when a group of performers move in unison. The audience is unable to tell who is leading the movements.
Narration	Narration is a technique whereby one or more performers speak directly to the audience to tell a story, give information or comment on the action of the scene or the motivations of characters.
Canon	Canon is a technique that requires performers to take it in turns to perform a movement that is then identically copied and performed by others.
Vocal Layering	Layering voices, overlapping sounds and words to create texture, interest and depth.
Still Image	This is a frozen picture which communicates meaning. It can provide insight into character relationships with a clear focus upon use of space, levels, body language and facial expression.

Tier 2 vocabulary Definition

Democracy	The belief in freedom and equality between people, or a system of government based on this belief, in which power is either held by elected representatives or directly by the people themselves.
Repetition	Repeating a spoken word or movement multiple times.

Section 2: Group Work Skills

Practical drama is, in its very essence, a collaborative activity. Working with others can lead to greater tolerance, empathy and inclusion. Students are more able to work independently of the teacher when in groups, where they can learn from and support each other while working towards a shared goal. Leadership skills can be developed as students take responsibility for different aspects of the shared work.

In Drama we succeed TOGETHER.



A Greek Chorus



Section 3: The Chorus in Contemporary Theatre

In musical theatre, the ensemble or chorus are the on-stage performers other than the featured players. Ensemble members typically do not play named characters and have few or no spoken lines or solo parts; rather, they sing and dance in unison. An ensemble member may play multiple roles through the course of a show.

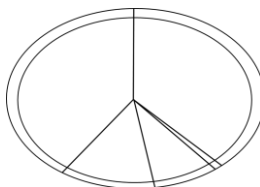

The QR code below take you to a National Theatre video about the role of the chorus in modern (contemporary) theatre.



The Oompa Loompas sing about how Augustus' greed has led to his demise. The chorus comment on the action that has taken place using movement and song, all performed in unison.



Follow the QR code to watch their song.

Section 1: Key Vocabulary		Section 2: New Knowledge/Skills		Section 3: Other subject specific things																																																																																								
Tier 3 vocabulary	Definition	<p>Eatwell guide</p> <p>Label the diagram and add the extra sections</p> 	<p>Useful Abbreviations:</p> <ul style="list-style-type: none">• tsp• tbs• g• ml• l <table><tr><th>Spring</th><th>Summer</th><th>Autumn</th><th>Winter</th></tr><tr><td>Asparagus</td><td>Beetroot</td><td>Field Mushrooms</td><td>Brussels Sprouts</td></tr><tr><td>Carrots</td><td>Broad beans</td><td>Lettuce</td><td>Cabbage</td></tr><tr><td>Cauliflower</td><td>Carrots</td><td>Marrow</td><td>Carrots</td></tr><tr><td>Celeriac</td><td>Cauliflowers</td><td>Potatoes</td><td>Cauliflower</td></tr><tr><td>Cucumbers</td><td>Courgettes</td><td>Pumpkin</td><td>Celeriac</td></tr><tr><td>Curly Kale</td><td>Cucumber</td><td>Rocket</td><td>Curly Kale</td></tr><tr><td>Purple sprouting broccoli</td><td>Fennel</td><td>Squashes</td><td>Fennel</td></tr><tr><td>Savoy Cabbage</td><td>Fresh Peas</td><td>Sweetcorn</td><td>Leeks</td></tr><tr><td>Spring Greens</td><td>Garlic</td><td>Watercress</td><td>Parsnip</td></tr><tr><td>Spring Onions</td><td>Green beans</td><td></td><td>Potatoes</td></tr><tr><td>Watercress</td><td>Salad & salad leaves</td><td>Apples</td><td>Red Cabbage</td></tr><tr><td></td><td>New Potatoes</td><td>Blackberries</td><td>Swede</td></tr><tr><td>Rhubarb</td><td>Radishes</td><td>Damsons</td><td>Turnip</td></tr><tr><td>Gooseberries</td><td>Salad onions</td><td>Elderberries</td><td></td></tr><tr><td></td><td>Tomatoes</td><td>Pears</td><td>Apples</td></tr><tr><td></td><td>Watercress</td><td>Plums</td><td>Pears</td></tr><tr><td></td><td>Blueberries</td><td></td><td></td></tr><tr><td></td><td>Currants</td><td></td><td></td></tr><tr><td></td><td>Plums</td><td></td><td></td></tr><tr><td></td><td>Raspberries</td><td></td><td></td></tr><tr><td></td><td>Strawberries</td><td></td><td></td></tr></table>	Spring	Summer	Autumn	Winter	Asparagus	Beetroot	Field Mushrooms	Brussels Sprouts	Carrots	Broad beans	Lettuce	Cabbage	Cauliflower	Carrots	Marrow	Carrots	Celeriac	Cauliflowers	Potatoes	Cauliflower	Cucumbers	Courgettes	Pumpkin	Celeriac	Curly Kale	Cucumber	Rocket	Curly Kale	Purple sprouting broccoli	Fennel	Squashes	Fennel	Savoy Cabbage	Fresh Peas	Sweetcorn	Leeks	Spring Greens	Garlic	Watercress	Parsnip	Spring Onions	Green beans		Potatoes	Watercress	Salad & salad leaves	Apples	Red Cabbage		New Potatoes	Blackberries	Swede	Rhubarb	Radishes	Damsons	Turnip	Gooseberries	Salad onions	Elderberries			Tomatoes	Pears	Apples		Watercress	Plums	Pears		Blueberries				Currants				Plums				Raspberries				Strawberries			<p>HW1 -</p> <p>a) Create a Health & Safety poster using the tier 2 and 3 vocabulary from the knowledge organiser to teach younger students how to keep safe in the kitchen.</p> <p>b) Complete the H&S quiz on Google classroom, or ask your teacher for a paper copy</p>
Spring	Summer			Autumn	Winter																																																																																							
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Claw Grip	A knife hold where the fingers are curled under and not laid flat on the food surface.																																																																																											
Bridge Grip	A knife hold where the knife is positioned between the thumb and fingers to create a bridge shape.																																																																																											
Pre-heat	Turning the oven on prior to being needed so it reaches the required temperature.																																																																																											
Simmer	A cooking method which requires the liquid to be just below boiling point (small bubbles on surface).																																																																																											
Rubbing-in method	Using your finger-tips to rub together the fat and flour in a recipe to create a breadcrumb looking texture.																																																																																											
All-in-one method	A cake making method. When all ingredients for a recipe are added into the mixing bowl and combined.																																																																																											
Seasonal Foods	Foods which are grown and ready-to-eat at different times of the year. (Spring, Summer, Autumn and Winter).																																																																																											
Eatwell Guide	A guide which shows the different food groups and the proportions they should be eaten in.																																																																																											
4 Cs	Relate methods used to keep food production safe and hygienic. Cross-Contamination, Cleaning, Cooking and Chilling.																																																																																											
Intensive	A type of farming used to produce a large amount of food.																																																																																											
Organic	A type of farming used to produce food which avoids the use of chemicals and pesticides.																																																																																											
Carbohydrates	A nutrient we obtain from our food which provides energy.																																																																																											
		<p>Name the knife holds</p> 	<p>HW2 - Use the seasonal foods chart above to identify which recipes can be made using seasonal ingredients on your HW sheet.</p> <p>Complete the quiz on Google classroom, or ask your teacher for a paper copy.</p>																																																																																									
Tier 2 vocabulary	Definition																																																																																											
5-A-Day	A Government scheme to encourage eating more fruit and vegetables.																																																																																											
Safety	Working in a way to avoid injury or danger.																																																																																											
Hygiene	Working in a clean and organised manner.																																																																																											
First-Aid	Basic assistance given for minor injuries.																																																																																											
Peeling / Chopping / Slicing	Methods of preparing some fruit and vegetables.																																																																																											
Equipment	The necessary items for a particular purpose																																																																																											
Measuring / weighing	Accurately preparing the correct amount of ingredients / liquids for a recipe																																																																																											
				<p><u>Cross-contamination</u>: How do we use chopping boards to avoid this in the T8 Kitchen?</p>																																																																																								
		<p>The <u>DANGER ZONE</u> temperatures are: _____</p>																																																																																										

Section 1: Key Vocabulary

Tier 3 vocabulary Definition

Needle A thin piece of metal with a point at one end and an 'eye' at the other that the thread passes through. Used to sew.

Stitch Thread passes through the fabric to keep it together

Pin A thin piece of metal with a point at one end and a colourful bead at the other. Used to hold fabric together temporarily

Thread A piece of spun polyester to sew with

Seam allowance The distance from the edge of the fabric to the stitching line that joins the fabric together.

Cotton A natural fibre that comes from the cotton plant.

Tacking A temporary stitch to hold fabric together whilst you sew on the sewing machine.

Quick Unpick A sharp pointed tool that is used to remove unwanted stitches.

Freezer Paper A paper with a thin coating of plastic that will stick to fabric when ironed. Used to make stencils

Tier 2 vocabulary Definition

Natural Comes from nature, a plant or animal.

Stencil A thin sheet of card, plastic, or metal with a pattern or letters cut out of it, used to produce the cut design on the surface below by the application of ink or paint through the holes.

Section 2: Skills

Stencil

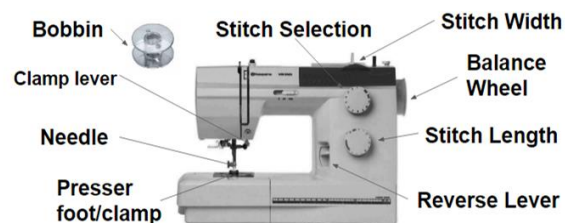
Stencils are used to put designs onto fabric. They allow you to make detailed, neat images. The freezer paper masks of certain areas of the fabric to stop paint getting to those areas. This keeps the paint exactly where you want it! The stencil design is cut by a craft knife. You must make sure you use this carefully as it is very sharp.

These two images show good examples of what the stencil might look like. The paint goes through the holes in the stencil onto the fabric beneath.



Manufacturing Steps

1. Pin, tack and sew the outside of the banner
2. Fold the top edge over to make the casing. Pin, tack & machine sew in place.
3. Remove the tacking stitches with the unpicker
4. Design your stencil
5. Cut out your stencil using a craft knife and cutting mat
6. Iron the stencil onto your banner
7. Using a sponge to apply fabric paint to the stencil
8. Leave to dry then remove the stencil
9. Iron the fabric paint design to fix it into the fibres of the fabric.
10. Add the wooden banner holder and a wool hanger.



Section 3: Knowledge

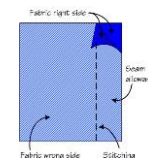
Cotton

Your banner is made from cotton. Cotton is the most widely used textile fibre in the world. It is harvested from cotton plants. Cotton plants grow in hot climates such as India and the USA. **Properties** of cotton are that it is strong, absorbent and easy to sew with. However, it creases easily and can shrink when washed.

Seam Allowance

A seam allowance of 1.5cm is added around the edge of fabric pieces that are going to be sewn together.

This is the gap between the edge of the fabric and the sewn seam. If we sewed right on the edge of the fabric the stitching would come undone as the fabric started to fray. This would result in products that would fall apart because the seams are not sturdy enough.



Sewing Safely

Follow these steps to ensure accurate and safe sewing:

1. Pin the fabric in place
2. Tack through all layers of the fabric, removing the pins as you go
3. Machine sew over the tacking
4. Use the quick unpick to remove the tacking stitches.

Machine Setting for Straight Stitch

The sewing machine can be adjusted to produce many different stitch patterns. This is done by adjusting the 3 dials on the right hand side of the machine. There is also a key printed on the machine to show you what each of the stitches look like.



You are going to use STRAIGHT STITCH for this project. Here are the settings you will need:

Stitch Width: 2.5
Stitch Selection: 1
Stitch Length: 2.5


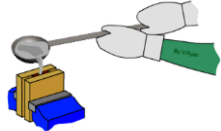
Section 1: Key Vocabulary	
Tier 3 vocabulary	Definition
Task Analysis	Investigating the topic being studied by breaking it down in the different possible focal points
Orthographic	A style of 3D drawing shown in 3 different views
Isometric	A style of drawing using 30 degree angles
Timber	A wooden beam in the frame of a house, boat, etc.
Hardwoods	The wood from a broadleaved tree (such as oak, ash, or beech) as distinguished from that of conifers
Softwoods	The wood from a conifer (such as pine, fir, or spruce) as distinguished from that of broadleaved trees
Man-made wood/ board	They are usually composed of natural woods and resin, which binds them together. This forms wood such as Ply
PPE	Personal protective equipment used in the workshop
Tri-Square	A tool for measuring or marking out accurate right angles
Pillar Drill	versatile machines that can be used on a wide range of materials where single hole drilling is required.
Disc sander	A machine to help sand down work to a correct measure or creating a smooth finish
Steel Rule	A tool to help measure accurately
Tenon Saw	A tool for cutting different types of wood by using a forwards and backwards movement
Hand File	A tool used to remove fine amounts of material from a workpiece. It is common in woodworking, metalworking
PVA adhesive	Polyvinyl acetate, commonly known as wood glue

Tier 3 vocabulary	Definition
Grain	The lines along the wood that create the decorative look
Annual Rings	Circular rings that indicate the age of the tree
Knot	Small dark circles where a branch once grew
Warping	When wood has twisted in different directions
Splitting	When ends of wood have dried too quickly and split
Cupping	When a plank of wood curves towards the centre
Pewter	Shiny silver coloured alloy metal which has a low melting point, non toxic, food safe, and malleable
Pewter Casting	The process of heating pewter until it melts, then pouring it into a mould to create a new shape



Section 2 Skills

Laser Cutting – Design and cut a pewter vesting mould

Pewter Casting – Cast a small metal token

Use standard workshop tools and equipment to make the wooden robot


Section 3 Knowledge

Wood types


Oak	Medium-Density	Redwood
Beech	Density -	Cedar
Mahogany	Fibreboard	Pine
Teak	Plywood	Spruce
Balsa	Chipboard	Fir

Properties of woods:
Strength, toughness, hard wearing, colourful and interesting appearance, grains, density, good shock absorbercy.


There are 3 main categories of wood:
Hard woods, Soft woods and man-made boards.



Hardwood trees take a long time to grow.

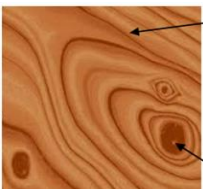
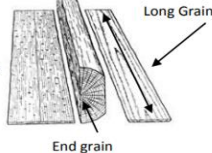


Softwood trees grow quickly.



Manufactured Boards are made and NOT grown.

Wood Grain

Wood Grain are the lines in the wood. Knots are small dark circles where branches once grew

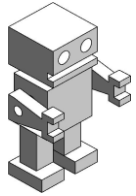
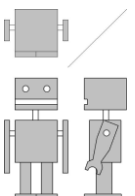
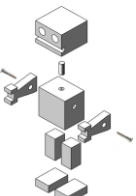
Medium Density Fibreboard (aka MDF) is made from wood fibres and glue which have been mixed together and compressed into large sheets

Drawing Styles:

Isometric

Orthographic Projection

Exploded View

Section 1: Key Vocabulary

Tier 2 vocabulary	Definition
Bullying	The repetitive, intentional hurting of one person or group by another person or group
Actions	Something done or performed; act; deed. an act that one consciously does.
Relationships	The way in which two or more people or things are connected.
Support	To provide someone with something they need in a time of need.
Relationship Breakdown	When a relationship between 2 people stops being positive.
Teamwork	The act of 2 or more people working together towards a shared goal..
Trait	A characteristics or describable feature about a person.
Family	A group of people who are related to each other
Behaviour	The way in which a person acts, especially towards others.

Tier 3 vocabulary Definition

Communication	The way we exchange information with one another
Online safety	Being aware of the possible threats that you could encounter whilst engaging in activity on the internet.
Social Circles Tool	A techniques used to establish how close people in your life are to you.
Peer pressure	Is when your peers or friends convince you to do something you don't really want to do.
Safeguarding	Protecting everyone's health, wellbeing and human rights; allowing them to live free from harm, abuse and neglect

Section 2: Key Themes:

Bullying: The different types of bullying, the signs that these types of bullying are happening and where you can get support form.

Changes and breakdown of Relationships: The different relationships we have in our life and how they can change or break down over time, the ways we cope and deal with this and the support that is on offer.

Different types of relationship: The different types of relationships we and others might have in our/their lives and what different factors might affect these relationships.

Actions & Behaviours that affect relationships: The qualities that we look for in others and the actions we exhibit and how these affect the relationships in our lives,

The affect our peers can have: The introduction to the term peer pressure and what this means, how this can affect us both positively and negatively and how we can set persona limits.

Teamwork: The key traits needed to be a successful team player, how to be in a team where everyone feels heard and how to resolve conflicts when they do arise.

Section 3: Key concepts:



What makes a relationship healthy?

- Mutual Respect
- Understanding
- Honesty
- Compromise
- Safety
- Trust
- Good Communication
- Individuality

SAFEGUARDING STAFF IN SCHOOL

			
Rachael Brown Deputy DSL	Nic Jones Wellbeing mentor	Gavin Brookes DSL	Matilde Warden Headteacher



SOCIAL BULLYING



VERBAL BULLYING



CYBERBULLYING



PHYSICAL BULLYING

Autumn 2: Extra – Curricular Timetable

Monday	Tuesday	Wednesday	Thursday	Friday
Lunchtime Clubs: 12.20 – 1.00				
Exam PE Sports Club Years 10, 11 With Steve and Tom Sports Hall	Duolingo Club All Years With Sarah Knappett Languages Block	Technical Theatre Club All Years (max 10 students) With Sarah Holme A7	Digital Skills Drop In Yr10-13 With Jody A2	Chess All Years With Carlos M2 12.20 – 1.00
Book Group Year 9 With Sarah Phillips Library	Basketball Year 9 With Steve Sports Hall	Belper Band All Years Woodwind, Brass and Strings With Anna MU1	Music Club All Years With Phil MU2	Games Club Years 7, 8 With Emma Library 12.20 – 1.00
Art Club All Years With Lucy A4		Volleyball Year 10&11 Girls With Steve Sports Hall	Knitting and Crochet Club All Years With Emma T5	Sports Club Year 7 Boys and Girls With Rebecca and Matt Sports Hall 12.20 – 1.00
Wargaming Hobby Painting Club All years With Richard A3			Scalextric Racing/ Model Railways All Years (Max 15 students) With Phill T1	
			Foreign Language Spelling/ Translation Bee practice Years 7, 8, 9 With Sarah Knappett Languages Block	
			Belper Choir All Years With Anna MU1	
			Football All Years Girls With Leanne Sports Hall	

Autumn 2: Extra – Curricular Timetable

Monday	Tuesday	Wednesday	Thursday	Friday
After School Clubs				
Gardening All Years With Marc and Tony Rosie's Garden 3.05 – 4.00 More Than Robots Years 8, 9, 10, 11 With Sarah Speight T1 3.05 – 4.00 Music Producers Club Years 9, 10, 11 With Phil MU2/Recodring STudio 3.05 – 4.00 Football Years 7, 8, 9 Boys With Steve, Matt and Tom Sports Hall 3.05 – 4.00 Sports Leadership Events Year 10 with Rebecca & AVSSP 3.05-4.00	Netball Years 9, 10, 11 Girls With Rebecca Sports Hall 3.05 – 4.00 Shrek All Cast and Crew With Sarah and Anna Main Hall 3.05 – 5.00	Litter Picking All Years With Marc P2 3.05 – 4.00 Scalextric Racing/ Model Railways All Years (Max 15 students) With Phill T1 3.05 – 4.00 Rugby Years 7, 8, 9, 10, 11 Girls With Sarah Harrison Sports Hall 3.05 – 4.00 Shrek All Cast and Crew With Sarah and Anna Main Hall 3.05 – 4.00 'Your Time' Leadership Year 9 Girls with Rebecca 3.05-4.00 (week 1) A'level PE Revision Year 13 with Rebecca 3.05-4.00 (week 2)		

2 Black or
Blue Pens



1 Coloured
Pen



2 Pencils



Eraser



Pencil Sharpener



Ruler



Scientific Calculator

