

Science

- I know the lifecycle of a human and can talk about development at each stage (foetus – infant – child – adolescent – adult – old age)
- I know the heart is a muscle
- I know that your heart rate increases when you exercise and can explain why.
- I know that a resting heart rate is the rate your heart normally beats at when you are not performing any kind of strenuous activity. I know that this differs from person to person and is influenced by your activity levels.
- I know that diet makes an important contribution to staying healthy and that sports people may choose different diets to meet the needs of their sport. I will be able to give examples of this.
- I know that when deciding whether foods are healthy, I should take into account the proportions of different food groups and the range of benefits on offer.
- I know that RDA stands for Recommended Daily Allowance and is useful when evaluating food choices.
- Drugs can be helpful or harmful depending on their type, who is taking them and why and the quantity taking.
- I know that possessing some drugs is a criminal offence

RE

- The key events in the Christmas story include the birth of Jesus, the visitors to Jesus and the pilgrimage to Bethlehem in Nazareth.
- Interpretation of events shows different people's understanding of the same event.
- There are similarities and differences within the Gospels of the Bible.
- The Gospel of Mark introduces Jesus as a man being baptised. He does not mention the birth of Jesus.
- The Gospel of John presents the divine attributes of Jesus: 'light' and 'the word'.
- The Gospel of Matthew shows us a king. Matthew's Gospel tells us an angel appears to Joseph, Jesus is born in Bethlehem and the Wise Men (Magi) bring gifts to Jesus.
- The Gospel of Luke shows us a saviour. Luke's Gospel tells us that the Messiah is coming, that Jesus was born in Bethlehem and that shepherds were told of his birth. Preparing for Christmas happens in many different countries around the world in different ways.

PE

- The key terms for athletics are: Standing throw – Shot put, Discus and Javelin Long jump and High jump
- Sprinting and Middle-Distance running
- The components of athletic fitness are: Power - A combination of strength and speed
- Agility - The ability to change direction quickly
- Cardiovascular endurance - The ability of heart, lungs and blood vessels to produce energy and maintain a high level of performance throughout a race
- The effects of exercise in the short term are: increased muscle contractions, increased heart rate and increased rate of breathing
- The effects of exercise in the long term are: increased bone density, heart muscle increases in size and strength (leading to a lower resting heart rate and more efficient circulatory system) and increased strength of diaphragm and intercostal muscles.

Geography

- I can name counties and cities of the UK with ports, including Liverpool, London, Southampton, Lincolnshire, Suffolk and North Yorkshire.
- I know how to use 4 and 6 figure grid references to locate features on maps with increasing precision.
- Human and physical characteristics have changed over time, such as new roads, railways, wind farms, the size of the channel of the River Tees and bigger and deeper docks. I understand that they have changed due to emerging industries since the Industrial Revolution, such as the steel, chemical and energy industries.
- Selling goods to other countries is exporting and buying goods from other countries is importing.
- Sketch maps are simple maps (not drawn to scale) and only show the main features.
- There are renewable and non-renewable energy sources in the UK, such as solar, hydro, wind, coal, gas and oil.

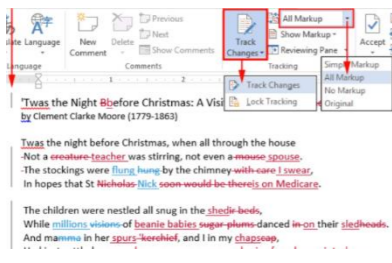


Computing

I know how to create the following on MS Word:

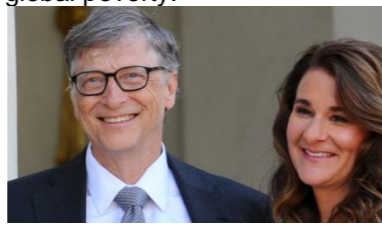
- indents
- line spaces
- headers
- footers
- page numbers
- tables

I know how to mark-up tools on MS Word such as spell check and word counts.



People Who Inspire Us

Bill Gates is the co-founder of the Microsoft Cooperation. His wife, Melinda Gates also worked at Microsoft and together they formed the Bill & Melinda Gates Foundation which is one of the largest charitable foundations in the world. It aims to improve healthcare and reduce global poverty.

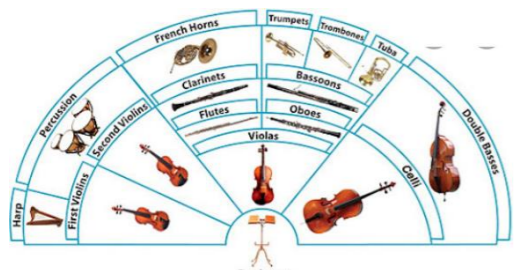


Year 5 and 6
Autumn 2
Knowledge Organiser



Music

- There is a wide range of instruments used in an orchestra such as violins, cellos, double bass, flutes, glockenspiels and tubas.
- Instruments are grouped into families: woodwind, strings, brass and percussion.
- I understand how woodwind, string and brass instruments work, including knowing the parts of the clarinet, guitar and trumpet and how to play notes.
- I know that the conductor's role is to ensure that the musicians play together and to shape the piece of music by adjusting, for example, volume.



Art

- Sculpture can be used to commemorate significant events. They can capture the emotions of the time and/or encourage people to respond.
- I know how to shape wire using objects and plyers.
- I know how to create coils, twists, bends (angular and curved) and braids.
- I know how to join wire using twisting, hook and eye and simple loop techniques.
- I know that Ray Lonsdale created the 'Tommy' sculpture installed at Seaham
- I know that Kurt Schwitters is a famous collage artist and can talk about his work.
- I know how collage can be used to create mood and depth in art work e.g. by altering its use as a foreground and background.



PSHE

- Relationships we have with individuals differ from one another. I can give examples and explain how I manage them differently.
- To demand more from a friendship than someone can/should give will hurt the friendship.
- Sometimes people can say hurtful things in a conflict situation, to prevent this we can use some kinder phrases and thoughts whilst aiming to resolve the issue.
- Anger can be triggered by different things for different people.
- Working on my own triggers will prevent me from becoming angry quickly.
- I know steps I can take for positive mental health including identifying the things that I enjoy and reflecting on the amount of time I spend online.

French

I know how to use conjunctions et (and) and mais (but) and parce que (because) to expand my oral and written French.

Describing people vocab:
 Il/ elle est – he/she is
 Il/ elle a – he/she has
 Il/elle porte – he/she wears

