

POLES APART

Year 5 Spring Term 1 KIRFs

Geography

- Longitude lines are imaginary vertical lines that run from the North to the South Poles and determine our time zones.
- Latitude lines are imaginary lines that run from East to West.
- Lines of longitude and latitude work together to create co-ordinates.
- The Earth is split up into the Northern and Southern hemisphere.
- Lines of latitude: Tropic of Cancer, Tropic of Capricorn, The Equator, Arctic Circle and Antarctic Circle.



History

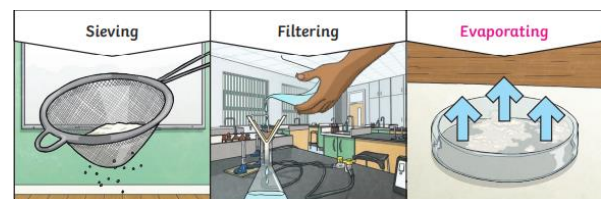
- Sir Earnest Shackleton wanted to be the first person to walk across the South Pole but failed.
- The ship he travelled on was called 'The Endurance' and it got stuck and crushed in pack ice.
- Shackleton's family motto was, 'By endurance we conquer'.
- The whole journey took two and half years.
- Despite treacherous weather and sea conditions ALL the men survived.
- In 1909 Matthew Henson (picture to the right) was the first in his party to reach the North Pole but racial prejudice at the time, kept him from receiving credit for his accomplishments.
- The Norwegian explorer Roald Amundsen who travelled to both the Arctic and the Antarctic, and he was the first person to reach the South Pole.
- Robert F. Scott was born in Devonport, Plymouth.
- Scott reached the pole in 1912, only to find that Amundsen had beaten him there by more than a month. Tragically, Scott and the other men of his polar team died on the return journey.



- Jade Hameister (picture to the left) is an Australian woman who, at age 16, became the youngest person in history to pull off the "polar hat-trick", ski to the North and South Poles, and cross the second largest polar icecap on the planet: Greenland.

Science

- Some materials dissolve in water. This means they break apart into tiny pieces, spread out in the water and can no longer be seen. This mixture is called a solution.
- Soluble (will dissolve) Insoluble (will not dissolve) .
- Reversible reaction - this is a change that can be undone. Irreversible reaction - a permanent change (can't be undone).
- When materials have been mixed together, sometimes it is possible to separate them again (reversible).
- Sieving - used when there is a mixture of different sized solids. For example: sand and pebbles.
- Filtering - used when there is a mixture of liquid and an insoluble solid. For example: water and sand.
- Evaporation - used when there is a mixture of liquid and a soluble solid. For example: water and salt.

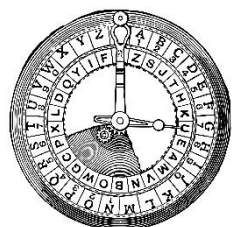


Art

- William Grill is the author and illustrator of Shackleton's Journey.
- William Grill draws most of his inspiration from the natural world and enjoys working in coloured pencils.
- Turner was a landscape painter. Many people consider him the first modern painter.
- Kit Johns is a Cornish artist, who uses maps and other found objects as the base for his art, creating a rare unique canvas for each painting.



Computing



- Morse code is a system of electronic communication. It uses dots, dashes, and spaces to represent letters, punctuation, and numbers
- Caesar Cipher (picture to the left) is one of the earliest known ciphers invented by Julius Caesar. It is a special code where each letter of the alphabet is "shifted" a fixed number and represents a different letter.
- Alan Turing created machines that helped crack the Enigma code and laid the foundations for modern computers and artificial intelligence!