

Key Vocabulary: Geography

Time zone: We split the globe into time zones using imaginary lines called meridians. They run from the North Pole to the South Pole, crossing lines of latitude. There are 24 time zones.

Prime meridian: The start of the time zones and splits the world into Western and Eastern time zones.

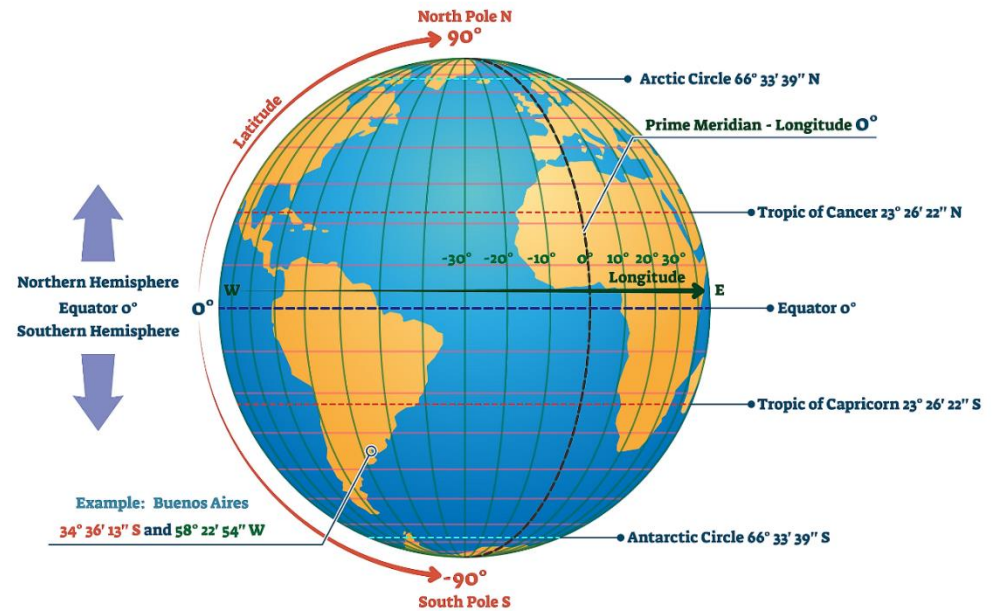
Longitude and Latitude are a system of lines used to describe the location of any place on Earth. Lines of latitude run in an east-west direction across Earth. Lines of longitude run in a north-south direction.

Biome: Areas of the planet with a similar climate and landscape, where similar animals and plants live.

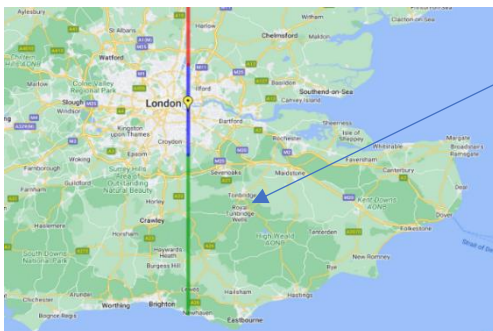
Hemisphere: The world has been split into two half spheres, Northern and Southern.

Tropics of Cancer and Capricorn: Two imaginary lines that circle the globe mark the boundaries of the tropics. The northern line is the Tropic of Cancer. The southern line is the Tropic of Capricorn.

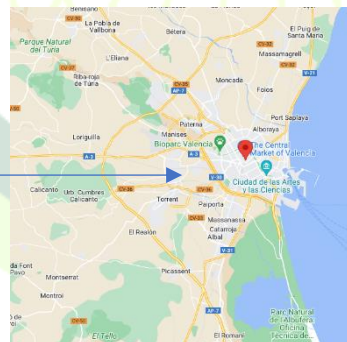
What do Europe, Africa and Antarctica have in common?



The Prime Meridian line



Comparing Tunbridge Wells in Kent to Valencia in Spain.



TYPES OF BIOMES



DT

Electronics and Computing



Design a fan boat with a circuit including a motor and a switch.
Measure the materials carefully before building it, **testing** the boat and **evaluating** it.

Key Vocabulary

Electronics, parallel circuit, series circuit, bulb, switch, buzzer, motor, control, monitor, software, program

Art

Painting

Key vocabulary

perception, appearance, impact, base colour, depth, complimentary, contrasting, manipulate

Techniques

Pointillism



Artist - Georges Seurat

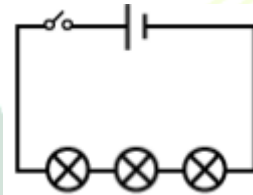


Pointillism is a painting technique developed by the artist George Seurat. It involves using small, painted dots to create areas of colour that together form a pattern or picture.

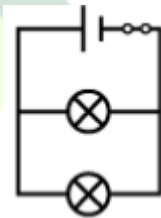
Science

Electricity

battery	closed switch
buzzer	lamp
open switch	cell
lamp	motor
voltmeter	wire



Circuit in series with a cell, switch and 3 bulbs.



Circuit in parallel with a cell, switch and 2 bulbs

Key vocabulary

Circuit; circuit is a complete path around which electricity can flow
Current: an electrical flow caused when electrons move and carry electrical energy from one place to another place.
Series; all current flows through all components
Parallel; on different paths of the circuit. Current is split.
Cell: generates electricity, e.g. a battery.

Key Scientists

A Volta 1800 AD invented the first battery.
M Faraday 1831 produced electricity.
J Swan 1860 made the first light bulb.
F Parpart 1914 invented the electric fridge.