

KS3 – Summary of Climate and Weather Links

Geography

Understand, through the use of detailed place-based exemplars at a variety of scales, the key processes in:

- physical geography relating to: geological timescales and plate tectonics; rocks, weathering and soils; **weather and climate, including the change in climate from the Ice Age to the present**; and glaciation, hydrology and coasts
- human geography relating to: population and urbanisation; international development; economic activity in the primary, secondary, tertiary and quaternary sectors; and **the use of natural resources**
- understand how human and physical processes interact to influence, and change** landscapes, environments and **the climate**; and how human activity relies on effective functioning of natural systems

Science – Physics

Pressure in fluids

Atmospheric pressure, decreases with increase of height as weight of air above decreases with height

The seasons and the Earth's tilt, day length at different times of year, in different hemispheres

Science – Chemistry

Earth and atmosphere

- the composition of the Earth
- the structure of the Earth
- the rock cycle and the formation of igneous, sedimentary and metamorphic rocks
- Earth as a source of limited resources and the efficacy of recycling
- the carbon cycle
- the composition of the atmosphere
- the production of carbon dioxide by human activity and the impact on climate.

Science – Biology

The dependence of almost all life on Earth on the ability of photosynthetic organisms, such as plants and algae, to use sunlight in photosynthesis to build organic molecules that are an essential energy store and to maintain levels of oxygen and carbon dioxide in the atmosphere