

St. Mary's Catholic Primary School



Subject: Science

Topic: Scientists and Inventors

Year: 4

Strand: Physics, Chemistry, Biology

What should I already know?

- What an inventor is and some famous inventors.
- That some inventions have been created and the names of some that we use today.
- That inventions are developed over time and can be improved.
- How changes to the environment can affect living things and their habitats.
- How sound travels through a medium to the ear.
- What electricity is and appliances that run on electricity.

What am I going to learn?

- A conservationist is a person who works to protect and care for the environment and living things.
- Gerald Durrell was a conservationist who worked hard to save Madagascar's unique plants and animals. He founded the Durrell Wildlife Conservation Trust to run international conservation programmes.
- Alexander Graham Bell was a Scottish scientist and inventor. His most famous invention was the first telephone.
- Sounds are made when something vibrates.
- Sound travels as a wave, vibrating the particles in the medium it is travelling in.
- Edison's most famous invention was the light bulb. However, he did not actually invent it! In 1802, Humphry Davy invented the first electric light.
- The innovation used to create longer-lasting light bulbs with a more durable carbon filament came from African-American inventor Lewis Latimer.
- Edison also invented a carbon microphone for Alexander Graham Bell's telephone, which meant that conversations over the telephone could be heard much better.

Vocabulary

Appliance: A device used for a particular purpose. Stoves, refrigerators, toasters, vacuum cleaners, and room heaters are some appliances used in the home. Most appliances use electricity.

Conservation: The protection of natural resources, such as soil, water, or forests, from loss, pollution, or waste.

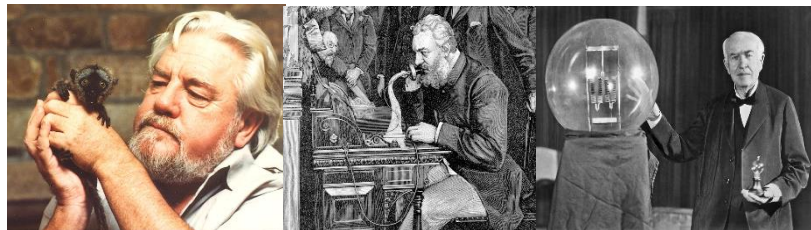
Deforestation: The act or process of cutting down the trees of a forest.

Energy: The power or ability to make something work or be active.

Erosion: Wearing away of the earth's surface by wind or water.

Medium: A substance that is a means of passing on a force or an effect.

Nutrients: Something in food that helps people, animals, and plants live and grow.



Investigations

- To set up a practical enquiry and report on findings about soil erosion and nutrient loss.

Useful websites

- <https://www.bbc.co.uk/bitesize/topics/zxwxvcw/articles/z4vp7nb>
- <https://www.bbc.co.uk/teach/what-are-zoos-for/z649f4j>
- <https://www.dkfindout.com/uk/science/famous-scientists/george-washington-carver/>
- <http://wildlife.durrell.org/kids/fun-factsheets/>
- <https://www.dkfindout.com/uk/science/amazing-inventions/telephone/>
- <https://www.bbc.co.uk/bitesize/topics/z2882hv/articles/zcwnv9g>