

Science - Electricity

- To report findings, including oral and written explanations in the context of preparing presentations on how electricity is generated.
- Identify common appliances that run on electricity, the different types of electricity and learn how to stay safe.
- Use results to draw simple conclusions, make predictions, suggest improvements and raise further questions.
- Construct a simple series electrical circuit, identifying and naming basic parts.
- Make systematic and careful observations, taking accurate measurements using standard units and a range of equipment.
- Recognise some common conductors and insulators and associate metals with being good conductors by testing different materials.

Music

Appreciate and understand a wide range of high-quality live and recorded music drawn from different traditions and from great composers and musicians.

Geography

- Use maps, atlases, globes and digital/computer mapping to locate countries and describe features studied.
- Describe and understand key aspects of physical Geography, including; climate zones, biomes and vegetation belts, rivers, mountains, volcanoes and earthquakes, and the water cycle.
- Describe and understand key aspects of human Geography including; types of settlement and land use, economic activity including trade links, and the distribution of natural resources including energy, food, minerals and water.

Road Trip to The USA



D&T

- Generate, develop, model and communicate their ideas through discussion, annotated sketches, cross-sectional and exploded diagrams, prototypes, pattern pieces and computer-aided design.
- Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.

Art and Design

Improve their mastery of art and design techniques, including drawing, painting and sculpture with a range of materials (e.g. pencil, charcoal, paint, clay)

Computing

- Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; and the opportunities they offer for communication and collaboration.
- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.
- Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.
- Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.
- Use sequence, selection and repetition in programs; work with variables and various forms of input and output.