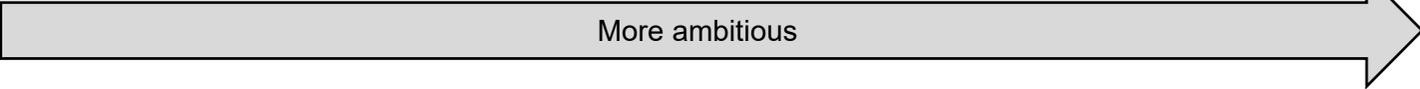


We will learn: Electricity and Magnetism

Element	More ambitious 		
1. Charging Up	Explain how objects can become charged	Describe what is an electric field and use this term when describing experiments	Explain an experiment in terms of movement of electrons
2. Circuits and Current	Define current and measure it accurately	Use a model to explain current	Make correct predictions about current levels
3. Potential Difference	Define potential difference and explain how to measure it accurately	Explain the difference between potential difference and current	Make correct predictions about potential difference levels
4. Series and Parallel	Describe difference between series and parallel circuits	Describe how current and potential difference vary in series and parallel circuits	Make correct predictions about series and parallel circuits
5. Resistance	Define Resistance	Calculate resistance using Ohm's law	Rearrange and use Ohms law
6. Magnets and Magnetic fields	Define a magnetic field	Plot accurately the shape of a magnetic field	Identify the direction of magnetic fields for bar magnets and the Earth
7. Electromagnets	State some uses of electromagnets	Describe some uses of electromagnets	Suggest some uses of electromagnets and explain how they work Suggest how to make electromagnets stronger and how to make a motor move in a different direction