Science Department — Foundation Stage Scheme of Work

Year 8	Energy and Electricity	14 Lessons

Aims: This unit of work is designed to introduce students to Energy and Electricity.
Links to KS4:
Chapter 2 Physics - Electricity

Key Skills	**Literacy Links:**	**Numeracy Links:**
• To develop an understanding of current and electricity. • To develop an understanding of different types of energy transfers. • To develop practical skills in a Science labs.	**Key Words:** **Electrons, series, parallel, current, potential difference, systems, stores.** Be able to read and use these keywords within Scientific situations both verbally and written.	Be able to use Physics equations. Be able to re-arrange equations.

Assessment	**Cross-Curricular Links**
• *Pink sheet teacher assessed activity – Electrical circuits.* • *50 mark test which will focus on the following key areas: Static electricity, Power & energy use, Energy transfers & changes, changes of systems and Energetics.*	• Design Technology – electrical circuits. **SMSC opportunities and British values**

Opportunities for further learning

Homework for year 8 is set on a weekly basis. Below are a range of different activities which could be used throughout the unit.
Option 1: Draw circuits.
Option 2: Research how light dependent resistors are used in traffic lights.
Option 3: Describe a range of scenarios where static electricity is seen in real life.
Option 4: Design your own circuits.
Option 5: Create a newspaper article/poster about the different stores of energy.