OVERVIEW

SUBJECT: SCIENCE **YEAR: FOUR** **PART: THREE**

WEEK	TOPIC	OBJECTIVES
25	Electricity	To understand which appliances use mains power and which use battery cells. To understand that electricity travels along wires. To understand the function of plastic insulators.
26	Electricity	To understand that different materials conduct electricity. To understand what steps can be taken to ensure safety around electricity.
27	Electricity	To investigate how to wire a circuit. To recognise the positive (+) and negative (–) terminals of a cell. To understand that a circuit must be complete in order to work.
28	Electricity	To understand how electricity makes machines work. To understand that certain noise-making machines work using electricity.
29	Electricity	To investigate different ways of wiring up a circuit. To understand the function of a switch in a circuit.
30	Electricity	To understand how switches work. To investigate different ways to make a switch.

31	Shaping materials with heat	To understand and investigate the effect of heat on a range of materials. To compare hard and soft materials.
32	Changing shapes of materials	To discover which materials respond to twisting with bare hands. To create a shape with play dough, then cook the shape.
33	Heating and cooling	To observe the effects of heat on certain substances. To understand that some changes are permanent. To understand that some changes are temporary and can be reversed.
34	Warming foods	To understand how certain materials become liquid when heat is applied. To observe the three states of water.
35	Dissolving materials in water	To understand that certain materials will dissolve when mixed with water. To recognise that certain materials do not dissolve in water – they are insoluble. To discover that some materials appear to dissolve, but simply mix with the water.
36	Evaporation and condensation	To understand the importance of evaporation and condensation in the water cycle.