

## **PROGRAMME** *(Approximately 3 hours)*

### **Introduction to Renewable Energy**

- What is renewable energy?
- Energy in the home
- Lean, Mean, Green - the stages of reducing energy consumption in the home

### **Snack Time**

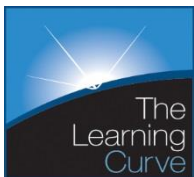
- Recycle food waste at the wormery

### **Small groups (each group to move round to each activity)**

- Solar Energy - discussion, look at display, solar panel experiment
- Ground & Air Source - discussion, changing state experiment
- Reduce, Reuse, Recycle - discussion, re-use craft, recycle activity, reduce take home challenge

### **Group Discussion & Close**

- What have we learnt?
- Homework & Competition



## Group Work Detail

*Small groups (each group to move round to each 20 minute session)*

### Solar Energy

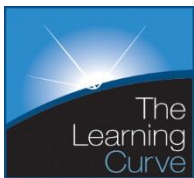
- Discussion: What is solar energy?
- Activity: Make a circuit using a solar panel, can you make the buzzer sound?
- Record: Draw the circuit

### Ground & Air Source

- Discussion: How does the heat pump work?
- Activity: Experiment to understand how things change state
- Record: Log results in a table and draw graph

### Reduce, Reuse, Recycle

- Discussion: What do we understand by reduce, reuse, recycle?
- Activity: Re-use plastic cups from snack to make a bird feeder\*\*
- Activity: Fill in the gaps on the recycling symbol page in workbook
- Record: Take home "reduce challenge"



\*\* Other activities are available

