

# Nature's Power

## Renewable Energy in Action



### Circuit circus

#### Aim of activity

Understanding electrical circuits and how they can be powered by different energy sources

#### Equipment needed (per 6 children)

- Lemon battery kit: 3 x lemons / potatoes, 4 x crocodile clips, 6 x pieces of copper, 6 x pieces of zinc, light bulb, instructions
- Solar cell kit: 1 x solar cell, 1 x bulb and holder / Buzzer, 1 x torch, 1 x instructions
- 1 x shake-a-gen, 1 x instructions
- Labels for circuits: Chemical Energy; Solar Energy; Electro-magnetic energy
- Question cards



#### Instructions

Each group of 6 children are given a set of the above equipment to explore making with their group.

The following questions will be printed on cards to stimulate discussion in the groups;

- 1) Place your labels (solar energy circuit, electro-magnetic energy circuit, chemical energy circuit) by the circuits you have made
- 2) Discuss in your group how each circuit works
- 3) What do you know about each type of energy?
- 4) Can you think of any appliances that you know of that might use the different types of energy?