

## Sample Science Activity Challenges

Suggested for YEARS 3 & 4  
(Technology tasks are marked with an \*)

*This card is not to be photocopied but is to be used to get an idea of the challenge questions*

### PONDERING ON PLANTS

1. Make a model of a flower. Include its parts and be ready to explain what each part does.
2. Cut a piece of fruit in half. Draw exactly what you see. Label the parts you know. Find out about those parts you don't know.
3. Make a fernery, mini desert or tropical garden that will survive for at least one week. Think carefully about light and moisture needs.
4. Collect leaves from 12 different types of plants. For each leaf, make a rubbing or press. Display your leaves in groups of similar types.

### TANTALIZING TOYS

1. \*Make a toy that moves using by a rubber band.
2. \*Make a game that two people can play that uses magnets.
3. \* Think, plan and make a toy to play with in the bath or swimming pool.
4. \* Make a parachute out of tissue paper or a supermarket bag that will protect an egg when it is dropped from a height of two metres.

### WORLD OF WATER

1. Use ten 2 cm x 10 cm strips of cartridge paper or paper towel. Put a different coloured felt pen dot on each. Dip the end of each strip into water, but don't let the water touch the dot. Observe what happens to the dot. Record what you noticed.
2. Give reasons why people dehydrate (dry) food. List ten foods that can be bought at the supermarket which have been dehydrated.
3. By using different amounts of water and detergent, try to blow the biggest bubble possible through a three cm diameter wire ring. Record your findings. Which mixture helped you blow the biggest bubble? The smallest?
4. Choose six ingredients from the kitchen cupboard. Predict which ones will dissolve in water and test these items. Show your results in diagrammatic form with labels.

### WEATHER WATCH

1. How does the sun evaporate water? Using saucers of water plan and carry out an experiment to find out how quickly water evaporates in a sunny spot and a shady location. Explain how this happened.
2. Find out about different cloud types and the weather those clouds usually bring. Use your findings to say what you think a day's weather will be like.
3. What is the 'greenhouse effect' and how is it caused? Draw a diagram to explain.
4. \* Make your own wind vane. Use a compass to find out the wind direction two times a day for five days. Put this in a table.