

## GROW YOUR OWN

In this activity, you'll be growing your own wheat seeds to find in what conditions they grow best. You'll be investigating the importance of water, light and soil.

1. Plan your experiment so that:

- some pots have water, light and soil
  - some pots have water and soil but no light (put them in a dark place)
  - some pots have soil and light but no water (don't water these pots)
  - some pots have water and light but no soil (don't put soil in these pots)
- Remember to label the pots clearly.

2. Which pots are the 'control' pots? Why is it important to make your test fair?

3. Over the next few days, record your observations of the growing plants, including the date the seed began to sprout, the length and the colour of the plants.

4. Look at your seeds every two days and measure how tall they are. You can use a table like this one to draw or write down what your plants look like, and write down how tall they are.

### You will need:

- plastic pots or cups
- soil or potting compost
- wheat grains
- water
- a dark place to put some pots
- a space in the light, e.g. a window sill

| Seed | Day 1 | Day 3 | Day 5 | Day 7 | Day 9 |
|------|-------|-------|-------|-------|-------|
| 1    |       |       |       |       |       |
| 2    |       |       |       |       |       |
| 3    |       |       |       |       |       |
| 4    |       |       |       |       |       |

5. How long did it take the seeds to sprout? \_\_\_\_\_
6. Which seed grew the tallest? \_\_\_\_\_
7. How tall did it grow? \_\_\_\_\_
8. Write up and explain your results. What conclusions can you draw about the importance of water, light and soil?