Your teacher may watch to see if you can:

- use apparatus appropriately
- think about control variables as you set up your tubes.

Aim

To find out if cress seeds need light, water, warmth or oxygen to germinate.

Be-2

Prediction

1 Which of the resources listed above do you think cress seeds need to germinate?

Method

Apparatus

pipette

•

- 5 boiling tubes
- cold, boiled water
 - forceps
- labels forceps •

cotton wool

- A Take 5 pieces of cotton wool and use the forceps to push them into the bottoms of 5 boiling tubes, so that there is about a 1 cm depth of cotton wool in each.
- B Now set up the tubes as shown in the drawings.
- C Label each tube.
- **D** Add 10 cress seeds to each tube.
- E Put the 'cold' tube in a fridge and put all the others on a warm windowsill.

Recording your results

2 Draw a table to record your results.

Considering your results/conclusions

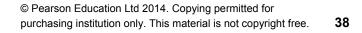
- Do your results match your prediction? If not, how do they differ? 3
- 4 Why do you think you got the results you did? Use scientific reasons to explain them.

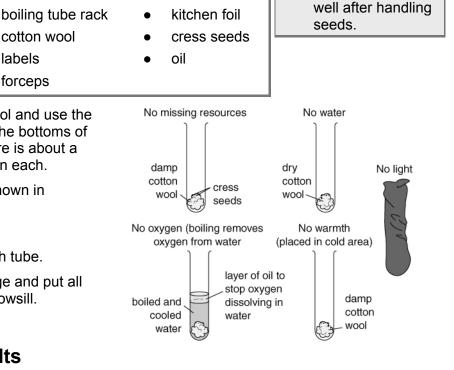
Evaluation

- Was your experiment a fair test? Explain your reasoning. Think carefully about all the variables. 5
- **a** If you could do this experiment again, how would you change what you did? 6
 - **b** Explain why these changes would make the experiment better.

I can...

- use control variables to evaluate an experiment
- recall the resources needed for germination
- explain the need for the different resources by a seed as it germinates.





Wash your hands