

Write your name here

Surname

Other names

**Pearson Edexcel  
International GCSE**

Centre Number

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Candidate Number

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# Biology

**Unit: 4BI0**

**Science (Double Award) 4SC0**

**Paper: 1B**

Practice Experiment Design Questions

**Time: 1 hour**

Paper Reference

**4BI0/1B  
4SC0/1B**

**You do not need any other materials.**

Total Marks

## Instructions

- Use **black** ink or ball-point pen.
- **Fill in the boxes** at the top of the page with your name, centre number and candidate number.
- Answer **all** questions.
- Answer the questions in the spaces provided  
- *there may be more space than you need.*

## Information

- The total mark for this paper is 60.
- The marks for **each** question are shown in brackets  
- *use this as a guide as to how much time to spend on each question.*

## Advice

- Read each question carefully before you start to answer it.
- Keep an eye on the time.
- Write your answers neatly and in good English.
- Check your answers if you have time at the end.

**Turn over** ►

4BI0 009

[ilikegcse.tumblr.com](http://ilikegcse.tumblr.com)

**PEARSON**

**Answer ALL questions.**

**1** Describe an experiment you would carry out to show the effect of different carbon dioxide concentrations on the growth of a plant.

**(Total for Question 1 = 6 marks)**









**6** Describe an investigation to find out if larger female rats produce more offspring than smaller female rats.

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(Total for Question 6 = 6 marks)

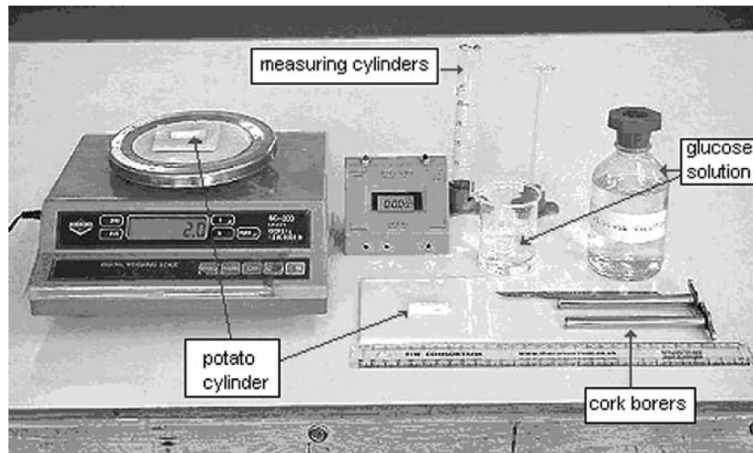








- 10** Water can move into or out of potato tissue by osmosis. The photograph shows some apparatus that could be used to investigate how the concentration of glucose solution affects this movement of water.



Describe how the apparatus in the photograph could be used to investigate movement of water into and out of potato tissue. You may use other pieces of apparatus if you wish.

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**(Total for Question 10 = 6 marks)**

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