

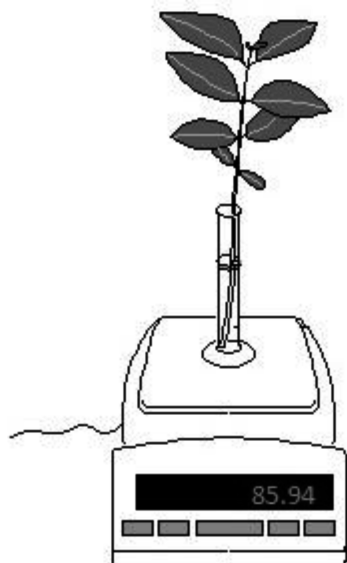
GCSE Biology A (Gateway)

J247/03 B1-B3 and B7 Higher (Higher Tier)

Question Set 3

1

A student wants to investigate the effect of air movement on transpiration. The diagram shows how she sets up her experiment.



1. She measures the rate of transpiration by measuring the loss in mass over 3 hours.
2. She does this first with the fan switched off.
3. She repeats this but with the fan switched on.
4. She keeps all other environmental conditions the same. These are her results.

	Fan switched off	Fan switched on
Mass loss in 3 hour (g)	37	144

(a) Explain the difference in her results.

[2]

(b) The student kept environmental conditions like light intensity and temperature the same.

(i) Why was it important to keep the light intensity the same?

[2]

(ii) Why was it important to keep the temperature the same?

[1]

Total Marks for Question Set 3: 5

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