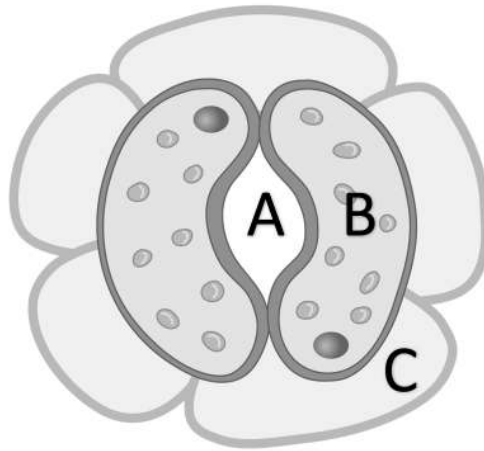


0	1
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Below is a diagram of the underside of a leaf



0	1	.	1
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State the name of each structure in the diagram

[3 marks]

Structure A _____

Structure B _____

Structure C _____

0	1	.	2
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In an experiment 2 leaves of the same size and species were weighed and their mass noted. One leaf (leaf A) was covered on both sides with Vaseline, the other leaf (leaf B) was not. Vaseline blocks the stomata. After 48 hours both leaves were weighed again and their new mass noted.

Leaf B started out as 1.58g but after 2 days had dropped to 1.26g. Calculate the percentage change in mass after 48 hours. Show your working **[2 marks]**

0	1	.	3
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The percentage change in mass of leaf A was much less than leaf B. Explain why **[2 marks]**

0	1
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 .

4

Translocation is often confused with transpiration. Translocation is the movement of the sugars (produced in photosynthesis) all around a plant via the phloem vessels. Using this information and your own knowledge, compare transpiration and translocation and refer to the following:

- * where each process occurs in plants
- * the substances involved in each
- * the direction of movement

[6 marks]
