



# Transport in Plants

1 Fill in the missing words

Plants produce glucose in their ..... through a process known as ..... To transport this glucose to the rest of the plant, such as the roots, it is transported along ..... tubes which are made of lots of ..... put end to end. Between adjacent cells there are small ..... that allow the cell sap to pass between the cells. Cell sap is a mixture of a water and ..... This process of transporting glucose and other nutrients is known as ..... and it can transport the cell sap in ..... direction/s.

[ 8 marks ]

2 Describe the role of xylem tissue and how it is adapted to carry out it's function

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[ 3 marks ]

3 What is transpiration?

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.....

[ 1 mark ]

4 Name 4 factors that affect the rate of transpiration

- 1) .....
- 2) .....
- 3) .....
- 4) .....

[ 4 marks ]

5 What is the transpiration stream?

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.....

[ 1 mark ]

6 Why does transpiration increase with temperature?

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[ 1 mark ]

7 Why does transpiration increase with light intensity?

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[ 2 marks ]

8 Using your understanding of concentration gradients explain how air flow and humidity affect the rate of transpiration

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[ 1 mark ]

[ Total 24 marks ]