



Transport in Plants

1 Fill in the missing words

Plants produce glucose in their leaves/**chloroplasts**/**palisade cells** through a process known as **photosynthesis**. To transport this glucose to the rest of the plant, such as the roots, it is transported along **phloem** tubes which are made of lots of **phloem cells** put end to end. Between adjacent cells there are small **pores/gaps** that allow the cell sap to pass between the cells. Cell sap is a mixture of mainly water and **(dissolved) sugars**. This process of transporting glucose and other nutrients is known as **translocation** and it can transport the cell sap in **both direction/s**.

[5 marks]

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

- Xylem tissue consists of **dead cells** joined end to end
- And strengthened with **lignin** to form long hollow tubes
- This allows water and mineral ions to be transported through them from the roots up the rest of the plant

[3 marks]

3 What is transpiration?

- Transpiration is the loss of water from the leaves of plants due to **evaporation** and **diffusion**

[1 mark]

4 Name 4 factors that affect the rate of transpiration

- 1) **Light intensity**
- 2) **Temperature**
- 3) **Humidity**
- 4) **Air flow**

[4 marks]

5 What is the transpiration stream?

- The **continual chain** of water molecules that pass from the roots to the leaves

[1 mark]

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