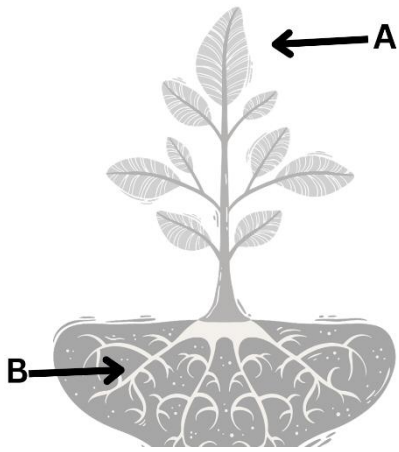
GCSE Translocation | Activity Worksheet

1. The image below shows an evergreen plant.

i. Indicate which letters represent the source and sink for the winter season. (2)



A: ……

B: ……

ii. Explain what causes this direction of flow. (2)

……

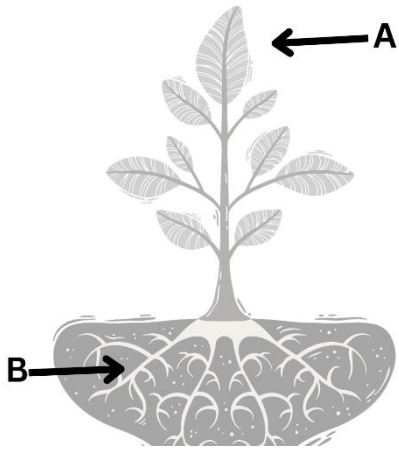
……

……

……

2. The image below shows a plant in a tropical climate that has just reached maturity.

i. Where are the source and sink located? (2)



A: ……

B: ……

i. Explain what causes this direction of flow. (2)

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3. What is translocation? (2)

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GCSE Translocation | Answers

1.

i. A. Sink **(1)**

B. Source **(1)**

ii. Because there is less sunlight available for photosynthesis **(1)** the roots (which stored sugars during the summer) now carry sugars/sucrose to the leaves. **(1)**

2.

i. A. Source **(1)**

B. Sink **(1)**

ii. Leaves produce sugars via photosynthesis **(1)** which they provide to other tissues (such as the roots) **(1)**

3. It is the movement of (dissolved) sugar/glucose (produced by photosynthesis) **(1)** (around the plant) via the phloem **(1)**

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