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| **Key vocabulary** | |
| **roots** | Anchor a plant in place. The roots also absorb water and nutrients from the soil. |
| **stem/trunk** | Transports water and nutrients around the plant. It also holds the leaves/flowers up in the air. |
| **leaves** | They use sunlight and water to produce the plant’s food. |
| **photosynthesis** | The way in which plants make food in their leaves. |
| **pollen** | This is a very fine powder that is produced by the male part of the flower. |
| **pollination** | When pollen is transferred to female parts of a flower. This can be done by wind or insects. |
| **seed formation** | Seeds can develop after pollination. They can be found in berries or fruits. |
| **seed dispersal** | Seeds can be dispersed in different ways, for example, wind, animals or water. |
| **germination** | When a seed sprouts a root and shoot. |



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| **Significant scientists**  **What should I already know?**  Observe and describe how seeds and bulbs grow into mature plants.  Find out and describe how plants need water, light and a suitable temperature to grow and stay healthy. | |
| **Joseph Dalton Hooker**  *(1817-1911)* | Joseph Hooker was a doctor and travelled to many places. He was a plant collecter and botanist and brought many plants back to the UK. Joseph was interested in finding out why plants grow in the locations they do. |

**How a plant takes in water**

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| **Pollination**   |  |  | | --- | --- | | **A close up of a flower  Description automatically generated** | Insects like bees and wasps transfer the pollen from the male part of a flower to the female part of other flowers. |     **Methods of seed dispersal**   |  |  | | --- | --- | |  |  | |  |  | |  |  | |  |  | |
| **What will I learn during this topic?**  Identify and describe the functions of different parts of flowering plants; roots, stem/trunk, leaves and flowers.  Investigate the way in which water is transported within plants.  Explore the part that flowers play in the life cycle of flowering plants including pollination; seed formation and seed dispersal. |