

## Nova's Botanical Science Flashcards

*Learning objective: To recall and understand the structure and function of plants, focusing on life cycles, transportation of water, and photosynthesis.*

Use these flashcards to test your knowledge of plant biology. Read the question on the front, try to answer it, then check the back to see if you are correct!

|                                                                                        |                                                                                                   |
|----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|
| <b>What is the process by which plants make their own food using sunlight?</b>         | <b>Which plant structure is responsible for transporting water from the roots to the leaves?</b>  |
| Photosynthesis                                                                         | Xylem                                                                                             |
| <b>What is the green pigment in leaves that absorbs energy from sunlight?</b>          | <b>What is the name of the male reproductive part of a flower?</b>                                |
| Chlorophyll                                                                            | Stamen                                                                                            |
| <b>What is the name of the female reproductive part of a flower?</b>                   | <b>What is the transfer of pollen from the anther to the stigma called?</b>                       |
| Carpel                                                                                 | Pollination                                                                                       |
| <b>What happens during the process of germination?</b>                                 | <b>Which part of the plant is responsible for anchoring it in the ground and absorbing water?</b> |
| The seed begins to sprout and grow into a new plant.                                   | Roots                                                                                             |
| <b>What is the function of the phloem in a plant?</b>                                  | <b>Why are flowers brightly coloured and scented?</b>                                             |
| It transports dissolved sugars and nutrients from the leaves to the rest of the plant. | To attract pollinators like bees and butterflies to help with reproduction.                       |
| <b>What are the three main things a plant needs for photosynthesis?</b>                | <b>What is the primary role of the stomata found on the underside of leaves?</b>                  |
| Sunlight, water, and carbon dioxide.                                                   | To allow gases like carbon dioxide and oxygen to enter and exit the leaf.                         |