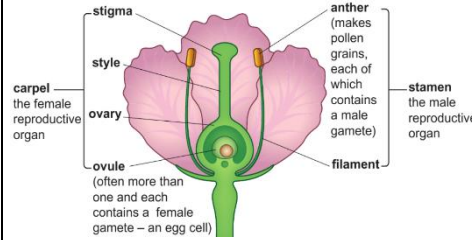


	<b>8B Plants and their Reproduction</b>
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1. Classification and Biodiversity	
<b>Classification</b>	Sorting organisms into groups based on their characteristics.
<b>Kingdoms</b>	The five largest groups. <i>animals, fungi, protocists, prokaryotes and plants.</i>
<b>Plants</b>	Members of the plant kingdom have cellulose cell walls, are multicellular and make their own food.
<b>Biodiversity</b>	The number of difference species in an area.
<b>Advantages of High Biodiversity</b>	Recover faster from disasters and useful substances can be found (medicines).
<b>Extinct</b>	When an organism dies out completely.

2. Types of Reproduction	
<b>Sexual Reproduction</b>	Two organisms breeding to produce offspring.
<b>Hybrids</b>	The offspring of two different species- they are not fertile.

<b>Fertile</b>	Can produce offspring.
<b>Inherited Variation</b>	Characteristics inherited from parents (due to DNA).
<b>Gametes</b>	Sex cells
<b>Zygote</b>	The fertilised egg cell formed when the male and female gamete join.
<b>Asexual Reproduction</b>	Reproduction involving only one parent- produces offspring identical to the parent (clones).

3. Pollination	
<b>Plant Reproductive System</b> 	
<b>Pollen</b>	Male gamete that ripens inside the anthers.
<b>Pollination</b>	The pollen grain carried away and transferred to the stigmas of another plant can be by animals/wind/water/

<b>Self-Pollination</b>	Pollen grains from a plant land on the stigma of the same plant.
<b>Cross-Pollination</b>	Pollen transferred from one plant to another.

4. Fertilisation and Dispersal	
<b>Pollen Tube</b>	Formed when a pollen grain reaches a stigma of the same species. It grows down to the ovule.
<b>Fertilisation</b>	The egg cell and the male gamete from the pollen grain join together to form a zygote.
<b>Cell Division</b>	The process by which the cell splits into two.
<b>Embryo</b>	Formed when the cells divide again and again.
<b>Seed</b>	The ovule becomes a seed. Inside the seed is the embryo and a food source.
<b>Seed Coat</b>	Hard outer coating of seed to protect it.
<b>Germinate</b>	The seed starts to grow.
<b>Fruit</b>	The ovary swells up and forms the fruit around the seed.

<b>Seed Dispersal</b>	The spreading of seeds away from the parent plant.
<b>Attracting Animals</b>	Fruits are fleshy, soft, juicy and taste good to attract animals for seed dispersal.
<b>Egested</b>	Seeds are passed out by animals in their faeces.
<b>Other Seed Dispersal Methods</b>	Wind, water and explosions- useful so that new plants aren't in competition with the parent plant.

5. Germination and Growth	
<b>Resources</b>	What a plant needs to grow/germinate.
<b>Respiration</b>	The process of releasing energy from glucose.
<b>Respiration Word Equation</b> glucose + oxygen → carbon dioxide + water	
<b>Photosynthesis Word Equation</b> carbon dioxide + water → glucose + oxygen	
<b>Starch</b>	Glucose is converted to starch to store it.