# Plants - Answers

Answer Key

## Section A: Plant Processes

1. Photosynthesis is how plants use sunlight, water and carbon dioxide to make their own food - it matters because it is the basis of almost all life on Earth
2. The plant would likely grow bent or lean towards the light source, since plants grow towards light
3. A cactus stores water and has few/no leaves to reduce water loss; a fern needs more moisture and has broad leaves to absorb light in shady spots
4. Without leaves, the plant can't photosynthesise and make food, so it would eventually run out of energy and die
5. Accept a fair test description, e.g. growing identical plants in different light levels while keeping water and soil the same, then comparing growth

## Section B: Reproduction & Adaptation

1. Accept any three of: wind, animals eating and excreting them, sticking to fur, water carrying them, or being flicked out by the plant
2. To increase the chances that at least some seeds survive and grow into new plants
3. Accept a clear explanation: pollen is transferred to another flower, fertilises an egg, and a seed develops as a result
4. Wind-pollinated flowers are often small/dull since they don't need to attract insects; insect-pollinated flowers are often bright and scented
5. Plants with strong root systems or growth points below the damage can regrow; those without this ability cannot recover