



Summary Questions: B3. Plant Power

Before you answer these questions, look over your summary sheets and the success criteria from this topic.

1. THE IMPORTANCE OF PLANTS

- Give three **different** examples of plant uses.
- What is a plant?
- Name three plants.

2. PHOTOSYNTHESES

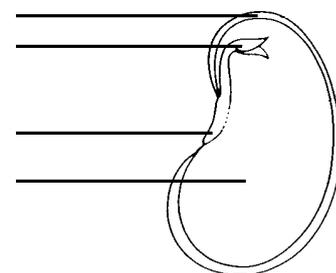
- Which structure in the plant cell is responsible for photosynthesis?
- Name the raw materials of photosynthesis.
- Name the products of photosynthesis.
- What type of energy do plants need to carry out photosynthesis?
- Write the word equation for photosynthesis.
- How is glucose stored in the plant?
- Explain the process of testing a leaf for starch.
- Describe the uses of two different plants.
- How can the rate of photosynthesis be increased?

3. PLANT STRUCTURES

- What is the name of the pigment found inside chloroplasts?
- What is a stomata?
- What is the purpose of the stomata?
- What is the name given to the orange pigment sometimes found in plants?
- What is the name of the red pigment sometimes found in plants?
- What is the name of the structure that water travels through the plant in?
- What is the name of the process of water transport?

4. PLANT GROWTH

- Which three elements are found in fertilisers and needed for plant growth?
- What is germination?
- Trace the image of the seed and label the parts of the seed.



5. PLANT PROPAGATION

- Explain how 'attached offspring' can be used to propagate plants.
- Explain how plantlets from runners can be used to propagate plants.
- Explain how 'leaf plantlets' can be used to propagate plants.
- Explain how cuttings can be used to propagate plants.
- Explain how tubers can be used to propagate plants.
- What is meant by 'natural propagation'?
- What is meant by 'artificial propagation'?

6. SCIENCE SKILLS

- During an investigation, a student deadheaded five different types of plant in a garden. He then counted the number of new flowers produced by each of the plants two weeks later. The results are shown in the table below.

Name of Plant	Number of New Flowers
Fuchsia	10
Tea rose	4
Marigold	13
Chrysanthemum	6
Hydrangea	9

Draw a **bar graph** of this information.

- The diagrams show four methods of propagating plants.

Use the letters from the diagrams above to identify the following.

- Two letters which show artificial propagation.
- The letter which shows propagation by runners.
- Name the type of food storage organ shown in diagram C above.

