

Warm-up and Worked Exam Questions

Photosynthesis is one of those really important topics that's just bound to come up in the exam. Make sure you're prepared to answer questions about it.

Warm-up Questions

- 1) What four things are needed for photosynthesis?
- 2) What three minerals does a plant need to remain healthy?
- 3) What part of the flower develops into the seed after fertilisation?
- 4) Name the three methods that plants use to disperse their seeds.

Worked Exam Question

1 The leaves of plants absorb light for photosynthesis.

(a) Write the word equation for photosynthesis using the words below.

oxygen carbon dioxide water glucose

(2 marks)

(b) Rob planted some marigold plants in his garden. He planted some under the tree and some in full sunlight. The plants in full sunlight grew much better than those under the tree. Explain why the plants grew better in full sunlight.

(2 marks)

(c) Rob planted some new marigolds in his greenhouse. He noticed that they grew much faster than the plants outside, even though they received the same amount of sunlight and water.

(i) Suggest a reason for this.

(1 mark)

(ii) Rob said that the marigolds in the greenhouse had more **biomass** than the marigolds outside in the garden. What does **biomass** mean?

(1 mark)