Photosynthesis

Ecosystems 3.9.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Biological processes | Exploring Science 9B

Name: _____ **Date:** _____ **Score:** _____ **/ 20**

1 What is the name of the process plants use to make their own food using light?

2 Which gas do plants take in from the air for photosynthesis?

3 Which gas do plants give out as a waste product of photosynthesis?

4 Complete the word equation: carbon dioxide + water → _____ + oxygen

5 Plants take in water for photosynthesis. Which part of the plant absorbs it?

6 Which green substance in chloroplasts absorbs light energy?

7 What are the tiny holes on the underside of a leaf that let gases in and out?

8 Leaves are wide and flat. What does this give them more of for catching light? Answer in two words.

9 Plants store glucose as which substance in their leaves?

10 Which chemical turns blue-black when starch is present?

11 A plant is kept in a dark cupboard for two days, then a leaf is tested with iodine. Does it contain starch? Answer yes or no.

12 Which mineral do plants need from the soil to make proteins for healthy growth?

13 Which mineral do plants need to make chlorophyll?

14 Plants and algae make food that almost all other living things depend on. What is their role called?

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15 Where does the energy for photosynthesis come from?

Year 9 stretch

16 A pondweed is moved closer to a lamp. Does the number of bubbles per minute increase or decrease?

17 A pondweed gives off 30 bubbles in 2 minutes when a lamp is far away, and 75 bubbles in 3 minutes when the lamp is close. How many more bubbles per minute does it make with the lamp close?

18 Greenhouse growers sometimes pump extra of one gas into the air to make crops grow faster. Which gas?

19 A leaf has white parts and green parts. After testing with iodine, which parts turn blue-black?

20 Explain why the amount of carbon dioxide in a sealed jar with a plant goes down in bright light.

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