Respiration

Ecosystems 3.9.3 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Biological processes | Exploring Science 8C

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

1 What is the name of the chemical reaction in cells that releases energy from food?

2 What is the name for respiration that uses oxygen?

3 Which sugar is the food broken down in respiration?

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

5 Name the gas made in aerobic respiration that turns limewater milky.

6 In which part of a cell does aerobic respiration happen?

7 How does oxygen get from your lungs to your muscle cells? It is carried by the _____.

8 What is the name for respiration without oxygen?

9 During a hard sprint, your muscles respire without oxygen. Which substance builds up in them?

10 Does aerobic or anaerobic respiration release more energy from each glucose molecule?

11 Yeast respires without oxygen. What is this kind of anaerobic respiration called?

12 Yeast in bread dough makes a gas that causes the dough to rise. Which gas?

13 Apart from carbon dioxide, what does yeast make in fermentation?

14 Do plants respire? Answer yes or no.

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15 Your muscles respire faster when you exercise. Does your heart rate increase or decrease?

Year 9 stretch

16 After a sprint you keep panting. What is the name for the extra oxygen you need to break down lactic acid?

17 Write the word equation for anaerobic respiration in muscles. Start with glucose.

18 Yeast in sugary water makes 12 bubbles a minute at 20 °C and 30 bubbles a minute at 35 °C. At which temperature is the yeast respiring faster?

19 Explain why a sprinter can only run at top speed for a short time.

20 Respiration is the reverse of which process that happens in plants?

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