Cells

Organisms 3.8.2 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 1: Cells; Activate 3: Cells | Exploring Science 7A, 8D

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

1 Which part of a cell holds the genetic instructions and decides what the cell does?

2 Which thin layer around a cell controls what goes in and out?

3 What is the name of the jelly-like substance where most chemical reactions in a cell happen?

4 In which part of a cell does respiration release energy?

5 Which green parts of a plant cell absorb light for photosynthesis?

6 Which strong outer layer of a plant cell is made of cellulose and keeps the cell's shape?

7 Which large space in a plant cell is filled with cell sap and helps keep the cell firm?

8 A cell has a nucleus, a membrane and cytoplasm, but no cell wall, no chloroplasts and no vacuole. Is it a plant cell or an animal cell?

9 A group of similar cells working together, such as muscle cells, is called what?

10 The heart is made of several different tissues working together. What is the word for this level of organisation?

11 What word describes a living thing made of just one cell?

12 Name the single-celled organism that lives in ponds and moves by changing its shape and pushing out parts of its cell.

13 Particles spread from where there are lots of them to where there are few. What is this process called?

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14 Which specialised cell has a tail to swim to an egg?

15 A microscope has a 10x eyepiece lens and a 40x objective lens. What is the total magnification?

Year 9 stretch

16 A microscope gives a total magnification of x400. Its eyepiece lens is x10. What is the magnification of the objective lens?

17 Red blood cells have no nucleus. What does this leave more room for? Answer in one word.

18 A cell looks 20 mm wide under a microscope set to x400. How wide is the real cell in mm?

19 Oxygen moves into a cell by diffusion. Is the oxygen concentration higher inside or outside the cell?

20 Explain why a root hair cell does not need chloroplasts.

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