Current

Electromagnets 3.2.2 | Part 1, usually Year 7 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Electricity and magnetism | Exploring Science 7J

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

1 Electric current is a flow of what? Answer in one word.

2 What unit is current measured in?

3 Which instrument is used to measure current?

4 Is an ammeter connected in series or in parallel in a circuit?

5 Which tiny negatively charged particles move through a metal wire when a current flows?

6 What do we call a circuit with only one path for the current to follow? Answer in one word.

7 What do we call a circuit that splits into branches, giving the current more than one path? Answer in one word.

8 In a series circuit, an ammeter next to the cell reads 0.4 A. What will an ammeter placed next to the lamp read, in amps?

9 The main current in a parallel circuit is 3 A. It splits into two branches. One branch carries 1 A. What does the other branch carry, in amps?

10 Is current used up as it passes through the lamps in a circuit? Answer yes or no.

11 A charged balloon is moved further away from your hair. Does its electric field get stronger or weaker where your hair is?

12 Two lamps are in series. One lamp breaks. What happens to the other lamp? Answer in a few words.

13 You rub a balloon on your jumper and it gains extra electrons. Is the balloon now positively or negatively charged?

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14 Two objects carry the same type of charge. Do they attract or repel each other?

15 A positively charged rod is held near a negatively charged one. Do they attract or repel?

Year 9 stretch

16 Three identical lamps are each on their own branch of a parallel circuit. Each branch carries 0.5 A. What is the current from the cell, in amps?

17 A cell gives 0.9 A to a parallel circuit with two branches. One branch carries twice as much current as the other. What is the current in the bigger branch, in amps?

18 A second lamp is added in series to a one-lamp circuit, using the same cell. Does the current increase, decrease or stay the same?

19 The space around a charged object, where other charges feel a force, is called an electric what? Answer in one word.

20 Explain why your jumper becomes positively charged after you rub a balloon on it.

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