Magnetism

Electromagnets 3.2.4 | Part 2, usually Year 8 | 20 quick questions

KS3 science quick questions

Answer online, marked instantly

Activate 2: Electricity and magnetism | Exploring Science 9J

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

1 What are the two ends of a bar magnet called? Answer in one word.

2 Name the two poles of a magnet.

3 Two north poles are pushed towards each other. Do they attract or repel?

4 A north pole and a south pole are held close together. Do they attract or repel?

5 A paper clip is moved closer to a magnet. Does the magnetic force on it get bigger or smaller?

6 Name one magnetic metal element other than iron.

7 Is copper a magnetic metal? Answer yes or no.

8 The area around a magnet where it affects magnetic materials is called the magnetic what? Answer in one word.

9 Magnetic field lines point from which pole to which pole? Answer in the form "X to Y".

10 Where is the magnetic field of a bar magnet strongest?

11 What can you sprinkle on paper over a magnet to show the pattern of its field? Answer in two words.

12 Is magnetism a contact or a non-contact force?

13 A fridge magnet keeps its magnetism all the time. What type of magnet is it? Answer in two words.

14 A compass needle swings round and points north. What is it lining up with? Answer in a few words.

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15 To prove a metal bar is a magnet, and not just made of a magnetic metal, would you look for attraction or repulsion?

Year 9 stretch

16 The north pole of a compass needle points towards the Earth's geographic North. What type of magnetic pole must be there?

17 A plotting compass is placed just beside the north pole of a bar magnet. Which pole of the compass needle points towards the magnet?

18 A steel needle is stroked many times in the same direction with a magnet. It can now pick up pins. What has happened to the needle? Answer in one word.

19 A bar magnet is snapped in half. How many poles does each piece have?

20 Explain why a compass needle moves when you bring a bar magnet near it.

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