

Magnets Grade 4 Quiz

Teacher's Answer Key

1. How many poles do magnets have, and what are they? *Two. North and south poles.*
2. What happens when you bring two like poles together? *They repel each other.*
3. How do I know which pole is which on a magnet? *Put two magnets together and find the spot where they are repelling the strongest. The poles facing each other are the same. Or bring it close to a compass. If the magnet attracts the needle to north, then the magnet's pole is the south pole.*
4. Is the magnetic force stronger or weaker the closer a magnet gets to another magnet? *Stronger.*
5. What kinds of materials are magnets made from? *Iron, nickel and cobalt.*
6. Name three objects that stick to a magnet. *Paperclips, pipe cleaners, and staples.*
7. Name three that don't stick to a magnet. *US quarter, glass, plastic.*
8. What does a compass detect? How do you know when it's detected it? *The direction of a magnetic field. When the needle is deflected, the compass is in a magnetic field.*
9. Circle the correct answer in the parenthesis:
 - a. The Earth has a (tiny | **huge**) magnetic field.
 - b. The Earth has a (strong | **weak**) magnetic force.
 - c. The magnetic field comes from the moving electrons in the currents of the Earth's (**molten core** | rocky core).
 - d. The Earth has a north and a south magnetic pole which is (the same | **different**) from the geographic north and south pole.

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Name_____

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