



Electricity and Magnetism

Name: _____

Date: _____

Grade: Grade 3

Part A: Multiple Choice

Circle the best answer for each question.

1. Grade 3: Why does a refrigerator magnet stick firmly to the fridge door but not to a wooden cabinet door?

- A) The fridge door is made of steel, which contains magnetic iron
- B) The wooden door is slippery and greasy on purpose
- C) Magnets only work when the room is warm and sunny
- D) All doors repel magnets except shiny ones

2. Grade 3: Why does a compass needle always point toward the north when you let it settle?

- A) Earth itself acts like a giant magnet with a north and south pole
- B) The sun pulls on every compass during the day
- C) Compasses contain tiny hidden batteries
- D) Gravity pushes the needle sideways toward north

3. Grade 3: Electric eels can make strong electric shocks. Why does this ability help them survive?

- A) They can stun prey and defend against predators
- B) They use the shocks to change the color of rocks
- C) Shocks make their scales grow faster each day
- D) Electricity helps them read books under the water

4. Grade 3: Why can an electromagnet in a junkyard crane drop a steel car exactly where the worker wants?

- A) The current can be switched off to turn the magnet off
- B) The car becomes lighter after being lifted up high
- C) Steel melts when it is close to an electromagnet
- D) Gravity reverses whenever the magnet is on

Part B: Fill in the Blank

Write the correct answer on each line.

1. Steel is attracted to magnets because it contains a lot of _____.
2. Earth behaves like a giant _____ with its own north and south poles.
3. An electric _____ can give off shocks strong enough to stun fish.
4. An electromagnet only works while electric _____ flows through its wire.

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2. Earth behaves like a giant magnet with its own north and south poles.
3. An electric eel can give off shocks strong enough to stun fish.
4. An electromagnet only works while electric current flows through its wire.
5. A compass needle points north because it lines up with Earth's magnetic field .