



Electricity and Magnetism

Name: _____

Date: _____

Grade: Grade 3

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A magnet made by wrapping wire around iron and running current through it is an _____.
2. A _____ has a tiny magnet that lines up with Earth to point North.
3. A junkyard _____ uses a huge electromagnet to lift heavy steel cars.
4. The two ends of a bar magnet are called the north and south _____.
5. Two north poles pushed together will _____ each other.
6. A north pole and a south pole will _____ each other.
7. Turning off the current in an electromagnet makes its magnetism _____.
8. A refrigerator magnet sticks to the door because the door is made of _____.
9. An electromagnet is stronger when you add more _____ of wire around the iron.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Compass	→ _____	Lifts heavy steel in a junkyard
Electromagnet in a crane	→ _____	Holds papers on the fridge door
Refrigerator magnet	→ _____	Points toward magnetic north
Bar magnet poles	→ _____	Named north and south ends

Part A: Fill in the Blank

Write the missing word or number on each line.

1. A magnet made by wrapping wire around iron and running current through it is an electromagnet .
2. A compass has a tiny magnet that lines up with Earth to point North.
3. A junkyard crane uses a huge electromagnet to lift heavy steel cars.
4. The two ends of a bar magnet are called the north and south poles .
5. Two north poles pushed together will repel each other.
6. A north pole and a south pole will attract each other.
7. Turning off the current in an electromagnet makes its magnetism stop .
8. A refrigerator magnet sticks to the door because the door is made of steel .
9. An electromagnet is stronger when you add more loops of wire around the iron.

Part B: Matching

Match each item on the left to the correct answer on the right.

1. Match each item to its correct answer.

Compass	→ <u>Points toward magnetic north</u>	Lifts heavy steel in a junkyard
Electromagnet in a crane	→ <u>Lifts heavy steel in a junkyard</u>	Holds papers on the fridge door
Refrigerator magnet	→ <u>Holds papers on the fridge door</u>	Points toward magnetic north
Bar magnet poles	→ <u>Named north and south ends</u>	Named north and south ends