

Name: _____

Date Started: _____ Date Completed: _____ Score: _____

Learning Activity Sheet
Electromagnets

Directions. Read and answer each item carefully. Encircle the letter of the correct answer.

1. Which is a part of an electromagnet?
 - a. Nail
 - b. Wire coil
 - c. Dry cell
 - d. All of these
2. Which is a component of an electromagnet?
 - a. Iron filing
 - b. Pin
 - c. Buzzer
 - d. Core
3. Why is the wire used in an electromagnet coiled?
 - a. It has more force.
 - b. It makes the electromagnet stronger.
 - c. It controls the field of attraction.
 - d. It controls the flow of electricity.
4. Which is not a part of an electromagnet?
 - a. The coil of wire
 - b. The nail as the core
 - c. The dry cell as the source of electricity
 - d. Pins, clips, and iron filings attracted by the electromagnet
5. Which can make an electromagnet stronger?
 - a. By removing a dry cell
 - b. By using a bigger nail
 - c. By uncoiling the wire
 - d. By adding more dry cells and increasing the number of turns in the coil of wire

6. Which is not a part of an electromagnet?
- a. Nail as core
 - b. Coiled wire
 - c. Dry cell as a source
 - d. Paper clip
7. In an electromagnet, why is it needed to make the wire coiled?
- a. It lessens the field of attraction.
 - b. It makes the electromagnet stronger.
 - c. It controls the length of the wire.
 - d. It allows the flow of electricity.
8. Which can be a factor that can increase the strength of an electromagnet?
- a. Adding iron nails
 - b. Removing a dry cell
 - c. Uncoiling the wire
 - d. Increasing the number of dry cells
9. How does an electromagnet work?
- a. By connecting dry cells and lightbulbs
 - b. By connecting to a direct source of electricity
 - c. By connecting to a connection of magnets
 - d. By allowing an electric current pass through a coil of wire around a nail
10. This is a device or tool made temporarily magnetic by electricity flowing through a coil of wire wound around an iron nail or bar.
- a. Electricity
 - b. Electric circuit
 - c. Electromagnet
 - d. Magnetism