

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?

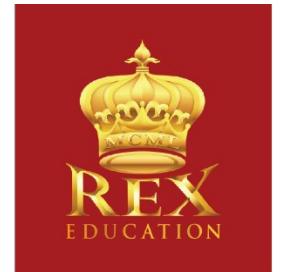
- a. It has more force.
- b. It makes the electromagnet stronger.
- c. It controls the field of attraction.
- d. It controls the flow of electricity.

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