

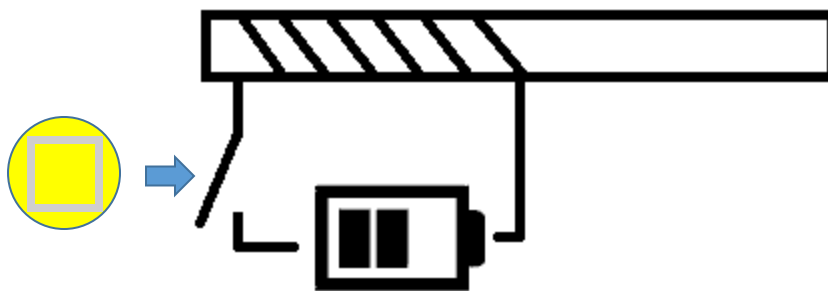
# Electromagnetism Experiment

Name:





Date:

Class:

1. The Yellow Button closes the circuit, allowing current to flow through the coils.

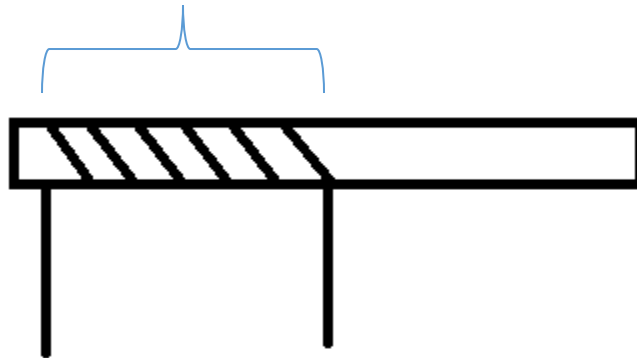



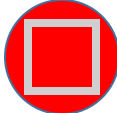
Circle the paperclips  attracted by the two coiled rods when you pressed the yellow button.

 <p>Plastic Rod</p>	 <p>Iron Rod</p>
	





**2. Press the Blue and Red buttons**

Did the number of wire turns increase  $\uparrow$  or decrease  $\downarrow$ ?



	
<input type="checkbox"/> $\uparrow$ <input type="checkbox"/> $\downarrow$	<input type="checkbox"/> $\uparrow$ <input type="checkbox"/> $\downarrow$

**3. Add wire turns until all clips can be attracted by pressing the yellow button.**

<u>Paper clip attracted</u>	<u>Wire Turns around Rod needed</u>
	
	
	
	

**Conclusions:**

- 1. An electromagnet can be made with an iron / plastic rod, battery, and wire turns.**
- 2. An electromagnet cannot be made with a iron / plastic rod.**
- 3. An electromagnet can attract more / less clips with more wire turns.**
- 4. An electromagnet becomes stronger / weaker with more wire turns.**