

Name: \_\_\_\_\_

Date: \_\_\_\_\_

# MAGNETISM

Magnetism is the force you feel when you put two magnets close together. Sometimes a magnetic force can be a pulling force. This happens when you put opposite poles near each other. Sometimes a magnetic force can be a pushing force. This happens when you put similar poles near each other.

## Purpose

The purpose of this experiment is to explore magnetic force. You will get to try using magnets to both push and pull objects.

## Equipment

- 1 bar magnet
- 1 container with a mixture of paper clips and other items
- 1 worksheet

## Procedure

1. Prepare a clean, clear surface to perform your experiment.
2. Separate the paper clips from the other objects. Do this in the following two ways:
  - a. The first way: By touching the paper clips with the magnet.
  - b. The second way: By not touching any of the paper clips with the magnet.
3. Make sure both partners get a chance to try.
4. Visit your teacher for a mini-demonstration with two magnets. You will hold two magnets close together to feel both a push and a pull force.



## Observations

In the boxes below draw a picture of how you separated the paper clips.

<u>Touching</u>	<u>Not Touching</u>

## Discussion

1. Were you able to separate all of the objects using the magnet?

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2. Why or why not?

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3. How could we help the environment by using magnets to separate things?

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