

# Elementary STEM Activity 5

**Subject:** Science (Physical Science)

## Topic: Magnet Exploration

**Grade Level:** 2-4

**Objective:**

Students will test objects to determine which materials are magnetic and classify them.

**Learning Outcome:**

- Identify magnetic and non-magnetic objects.
- Sort objects based on test results.
- Explain real-life uses of magnets.

**Materials Needed:**

- Bar or horseshoe magnet
- Paper clips
- Coins
- Plastic cap
- Wooden pencil
- Small metal key (optional)
- Recording sheet

**Activity Steps:**

1. Introduce a magnet and demonstrate attraction with a paper clip.
2. Show students a set of objects and ask them to predict which are magnetic.
3. Test each object by bringing the magnet close (do not rub strongly).
4. Record results in the table.
5. Sort items into magnetic vs non-magnetic groups.
6. Discuss why only some materials are attracted (metals like iron/steel).

**Recording Table:**

Object	Prediction	Magnetic? (Yes/No)	Notes
Paper clip			
Coin			
Plastic cap			
Pencil			
Key (optional)			

**Discussion Questions:**

- Which materials were magnetic?
- Why wasn't plastic attracted?
- Where do we see magnets at home/school?
- How can magnets help people?

**Extension Activity:**

Students search for 5 objects at home and report which are magnetic the next day.

**Illustration:**

## Magnet Test

