

# Determining Where a Magnet is the

## Strongest

**Gallery:** My Big Back Yard

**Course Name:** Magnet Mania

**Grade Level:** 1st

**Activity:** Post

**Approximate Time Required:** 30 minutes

**Vocabulary:** **MAGNET, ATTRACT, REPEL, MAGNETIC FIELD, NONMAGNETIC, POLE, NORTH POLE, SOUTH POLE, PREDICTION**

### **Objective:**

Determine how magnets attract and repel  
Identify common objects that are attracted to a magnet

### **Materials Needed:**

Bar magnet (at least 5 inches long)  
Paper clips

### **Procedure:**

1. Hold magnet horizontal
2. Hang paper clips magnetically (not by hooking together) from end, center, and midpoint between end and center.
3. Have students record number of paper clips that can be hung from each position.

### **Observations:**

Have students discuss findings and relate to the location of the strongest part of a magnet

### **Evaluation:**

Check student data for accuracy

### **Modifications:**

For advanced students, try refrigerator, horseshoe, wand magnet with poles in center, and round magnets. Let students determine locations for paper clips and draw conclusions about the strongest part of the different shaped magnets.

**Georgia Standards:** S1P2 a, b, S1CS1, S1CS2a, b, S1CS3a, S1CS5a, c, S1CS6, S1CS7a