

# Magnet Strength

Kindergarten

Activity: 8

Time: 1 Class Period

## General Description

Students will investigate whether or not the shape of a magnet affects the strength of the magnet.

## Objectives

Students will explore different shape magnets to determine if shape makes a difference in strength.

## Arizona State Standards

SC00 S1C1 PO1 Observe common objects using multiple senses

SC00 S1C2 PO2 Participate in guided investigations in life, physical, Earth and space sciences

SC00 S1C4 PO1 Communicate observations with pictographs, pictures, models, and/or words

SC00 S5C3 PO4 Sort materials according to whether they are or are not attracted by a magnet

W00 S1C1 PO1 Generate ideas through class discussion

W00 S1C1 PO2 Draw a picture about ideas generated through class discussion

W00 S3C2 PO1 Participate in creating expository texts (e.g. labels, lists, observations, journals, summaries) through drawing or writing

M00 S2C1 PO1 Formulate questions to collect data in contextual situations

M00 S2C1 PO2 Interpret a pictograph

LS R3 Share ideas, information, opinions and questions

## Teacher Background

Students will use the inquiry process to explore whether or not the shape of the magnet has an effect on the strength of the magnet.

## Materials

Variety of magnets (can be purchased in a hardware store or scientific catalog)

Activity Card K-8

Paper clips

## Optional Materials

Chart paper

Marker

## Procedure/Exploration

1. Give each pair of students a magnet and let them test how many paper clips their magnet can pick up. Have them draw the shape and write the number of paper clips on Activity Card K-8.
2. They will record their observations using drawings and numbers.

3. Give the students about two minutes with each shape magnet.
4. Provide paper to the students for them to create their own pictograph of their data. (This activity should not be done early in the year)
5. Have students explain their pictograph to the class.
6. Let the children explain which magnet was strongest and why they thought that to be true.

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Activity Card: K-8

Student's Name:

Date:

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Shape	Number of Paper Clips