

Subject: Science

Grade: 1st

Objective: Students will explore items to determine if they are magnetic.

Related SOL's:

1.1 The student will conduct investigations in which

- a) differences in physical properties are observed using the senses
- g) simple experiments are conducted to answer questions

1.2 The student will investigate and understand that moving objects exhibit different kinds of motion. Key concepts include

- c) pushes or pulls can change the movement of an object

Materials: horseshoe magnets, bar magnets, paper clips, staples, soda can tabs, pipe cleaner, yarn, popsicle stick, pom-pom, safety pin, Ziploc bag, magnet sorting sheet, pencil, crayon

Prerequisite knowledge: basic knowledge of pushes and pulls

Procedure:

- 1) Students will be review the terms push and pull on the carpet through questioning by the teacher
- 2) The teacher will have students draw numbers to find his/her partner.
- 3) Students will be given a magnet and a bag of items (see materials)
- 4) Students will explore the items in the bag with the magnet.
- 5) Students will sort the items on the sorting sheet: attract or repel
- 6) The teacher will walk around and monitor students performance to check for understanding and accuracy.
- 7) Students will explore the classroom for other objects that may or may not be magnetic.
- 8) Students will return to his/her seat and draw other items in the classroom on the sorting sheet under either attract or repel.
- 9) Students will be brought back to the carpet.
- 10) The teacher will have students identify the items in the bag as attracted to the magnet or repelled from the magnet.
- 11) Students will share other items they found in the classroom and identify them as magnetic or not magnetic.

Differentiation:

Students will be questioned during the exploration by the teacher as she walks around and monitors the class. Questions will be directed for individual students based on his/her exploration of the classroom and comments made by students.

Name _____ Date _____

Magnet Sorting Page

Attract

Repel