

Lesson Plan

Name: Scissors

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Grade Level: Kindergarten

Time Requirement: 5 days

Materials: Magnets for each group, ipads, smart board, paper, and pencil/ pen.

Subject content: Science/Language Arts

Alabama Course of Study:

Objective 2.4.3: Identify items that are attracted by a magnet.

Objective W.2.6: With guidance and support from adults, use a variety of digital tools to produce and publish writing, including in collaboration with peers.

Objective W.2.7: Participate in shared research and writing projects

End Goal:

Students will have an understanding and knowledge about magnets. They will be able to identify magnetic and nonmagnetic objects by doing hands on activities. Students will also be capable of working successfully with a group to create a project consisting of research data and writing.

Driving Question:

What objects are magnetic and what objects are not magnetic? Why or why not?

Preparation:

1. Students will be put into pre-assigned groups.
2. Collect object to be tested for magnetism as well as magnets for each group.

Instructions:

1. Put students into groups of five, distributing one iPad to each group.
2. Label 5 alternate tables with numbers 1-5. Place magnetic objects (paperclips, coins, keys, etc.) on tables 1, 3, and 5. Place nonmagnetic objects (rubber bands, books, cups, etc.) onto tables 2 and 4.
3. Have the students walk table to table taking photos (using iPad) of 2 objects of their choice at each table. Additionally, ask each group to discuss and then write a collaborative hypothesis about which objects they believe will be magnetic or nonmagnetic.
4. Once each group has recorded their data, have them begin a virtual poster via Google Drawing (located in Google Drive).
 - a. For virtual poster have the students arrange their photos onto a Google Drawing sheet and incorporate their hypothesis and results beneath the photos and the name of each object above the photos. Additionally, have the students write a one paragraph summary describing the project. See sample at end of lesson plan.

5. Place the I pads in a safe location before the use of magnets.
6. Allow the students to rotate tables at 3 minute intervals testing their chosen objects for magnetism. Be sure to have the students record their results.
7. Have each group add their results to their virtual poster. (OPTIONAL: have the students place a red border around the photos of nonmagnetic objects and a green border around magnetic objects.)
8. Glve the students time to peer review and proof read their work prior to presenting.
9. Using the SMARTboard, have each group provide a brief presentation of their virtual poster, reading each hypothesis and result.

Materials:

- Magnets
- iPads
- Smart board
- Paper
- Pen/pencil
- Pennies
- Paper clips
- Bobby pin
- Aluminum foil
- Keys
- Toothpicks
- Crayons
- Rubber bands
- Buttons (metal)
- Sunglasses
- Rocks
- Toy car-Hot Wheels
- Refrigerator letters
- Eating Utensils
- Jewelry
- Keychain rings
- Pencils

IS IT MAGNETIC?

In this project we had to pick out items to test for magnetism.
We tested ten items and found that we knew a lot about magnetism.

Hand Sanitizer



Hypothesis: We think that this object will be magnetic.

Results: This object was not magnetic.

Pen



Hypothesis: We think that this object will not be magnetic.

Results: This object is magnetic.

Hair Tie



Hypothesis: We think that this object will not be magnetic.

Results: This object was not magnetic.

Bracelet



Hypothesis: We think that this object will be magnetic.

Results: This object is magnetic.

Cup



Hypothesis: We think that this object will not be magnetic.

Results: This object was not magnetic.

Notebook



Hypothesis: We think that this object will be magnetic.

Results: This object was magnetic on the spiral, but the notebook was not.

Hairpin



Hypothesis: We think that this object will be magnetic.

Results: This object is magnetic.

Key



Hypothesis: We think that this object will be magnetic.

Results: This object is magnetic.

Battery



Hypothesis: We think that this object will not be magnetic.

Results: This object is magnetic.

Photo Hanger



Hypothesis: We think that this object will be magnetic.

Results: This object is magnetic.