

Grade 2

Topic Exploring Magnets

Title Magnet Magic- Part I

Standards:

- 2.1.3 Describe, both in writing and verbally, objects as accurately as possible and compare observations with those of other people.
- 2.1.6 Use tools to investigate, observe, measure, design, and build things.
- 2.2.5 Draw pictures and write brief descriptions that correctly portray key features of an object.

Objectives:

Cognitive:

Students will recognize and explain that a magnet has specific properties such as the ability to attract or remain neutral.

Affective:

Students will initiate their explorations with magnetic properties and classify their findings.

Psychomotor:

The students will manipulate magnets to discover magnetic properties.

Materials:

- Magnets- 1 per two students
- 10 to 20 metal and non-metallic items to test with magnets (Some items need to contain iron and some should be metal that do not contain iron.)
- A copy of the record sheet for each student
- A pencil for each student

Procedure:

1. To engage the students, the teacher will “spill” a few hundred bingo chips and then clean them up quickly with a magic magnetic wand.
2. Teacher will see if the students have anything to say about their observations.
3. Administer pre-test. Introduce the lesson on magnetism by introducing the two activities.
4. The class will be divided into two groups and will spend 10 to 15 minutes with each activity.

Activity 1

Scavenger Hunt- This can be conducted inside or outside.

1. The students find a minimum of 10 items that they predict, test and classify for magnetic attraction.
2. They record the item (using words or pictures) and prediction on their sheets before testing.
3. After testing, they record actual results.
4. After testing all 10 objects, the students infer what attribute makes an object stick to a magnet.
5. This is recorded on the sheet provided.

Activity 2

Explore Some More- The objects provided by the teacher need to be displayed randomly on a table.

1. The teacher or group leader holds up or points to each item
2. Each student records on his sheet whether the magnet will stick to it or not or if he is unsure.
3. Once all of the predictions are made, the students will justify their choices in a discussion.
4. The students will record the actual results.
5. Students record their reactions to the results
6. Students will note any further questions, and complete "From this lesson I learned...".

Assessment:

Pre-test: The teacher will provide 10 objects and the students will individually predict and record on their sheets whether the object will be attracted by the magnet or not.

For the post-test, this process will be repeated but two of the objects will not have been available during student exploration. Therefore, they will need to apply what they have learned to correctly classify these objects.

Pre-Test

Name _____

Object Being Tested

Prediction: Will it attract?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____

Post-Test

Name _____

Object Being Tested

Prediction: Will it attract?

1. _____

2. _____

3. _____

4. _____

5. _____

6. _____

7. _____

8. _____

9. _____

10. _____