

TARWATER ELEMENTARY SCHOOL STEM LAB

Activity ID: C-1

Activity Name: Loupe Looking

MATERIALS:

Materials Provided in Bin:

| Item: | Quantity: | Notes: |
|-------------------------------------|-----------|---------------------|
| Lesson Plan | 1 | |
| Jeweler's loupes | 1 | |
| Specimen box | 1 | |
| Copies of Data Collection Worksheet | Multiple | Several per student |
| Squares of dark paper | Multiple | approx. 12 X12 |

Materials In STEM Lab or Classroom (Common Items):

| Item: | Quantity: | Notes: |
|-------|-----------|--------|
| None | | |
| | | |
| | | |
| | | |

Materials Teacher/Parents Need to Provide:

| Item: | Quantity: | Notes: |
|-------|-----------|--------|
| None | | |
| | | |
| | | |
| | | |

WHAT ARE WE DOING?

Classifying objects and materials by their observable properties

VIDEOS / LINKS:

N/A

SAFETY NOTES:

Remind students that many of the objects in the specimen box are fragile, so handle them carefully.

SCIENCE TERMS:

Loupe: normally used by a jeweler to look closely at gems

STEPS:

1. Place the piece of construction paper on your table.
2. Grab one Loupe from the box. Remember not to touch the lens. If you smear or smudge the lens, ask your teacher to wipe it off with a special purple lens tissue.
3. Gently grab an item from the specimen box.
4. Place the large end of the Loupe up to your eye.
5. View the specimen through the Loupe.

6. Take notes on the unique features of the specimen.
7. If you have very small details in your specimen, you can increase the magnifying powers from Sx to IOx by fitting one Loupe on top of the other.
8. Return the specimen to the box.
9. If enough time, grab another specimen and repeat. Will probably be enough time to observe 3-4 objects

QUESTIONS TO ASK STUDENTS:

- What are some of the features you saw in your specimen?
- How does the Loupe magnify the picture?
- Why do the details show up more clearly when on top of a dark piece of paper?

CLEAN-UP:

Into the Bin = Lesson, specimens box, Loupes, paper if in good shape

Back to Lab/Classroom= N/A

Trash/Recycle = Unusable Paper

**IF RUNNING OUT OF A SUPPLY IN THE BIN, PLEASE
CONTACT LAURIE JONES IN THE OFFICE (X4307)**

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