

Forensic Geology:

Crime Scene:

Hopi Ave.






Eye witness:

Your science

teacher

# Crime Scene: Hopi Ave. at Noon Hill

## The Rock Type Characterization Chart

| Key                                                                              | <br><b>Diorite</b>                                                                                                       | <br><b>Pink Granite</b>                                                                                                  | <br><b>Granite</b>                                                                                                       | <br><b>Granodiorite</b>                                                                                                 | <br><b>Rhyolite</b>                                                                                                    |
|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p><b>Take pictures of each sample and slide them to match the key above</b></p> | <p><i>Paste Picture here</i></p>                                                                                                                                                                          | <p><i>Paste Picture here</i></p>                                                                                                                                                                          | <p><i>Paste Picture here</i></p>                                                                                                                                                                          | <p><i>Paste Picture here</i></p>                                                                                                                                                                          | <p><i>Paste Picture here</i></p>                                                                                                                                                                          |
| <p><b>Grain Size</b><br/>(How big are the specks in the rock?)</p>               | <input type="checkbox"/> Fine-grained (small)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained (large)                                                               | <input type="checkbox"/> Fine-grained (small)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained (large)                                                               | <input type="checkbox"/> Fine-grained (small)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained (large)                                                               | <input type="checkbox"/> Fine-grained (small)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained (large)                                                               | <input type="checkbox"/> Fine-grained (small)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained (large)                                                               |
| <p><b>Mineral Colors Represented</b><br/>(check all that apply)</p>              | <input type="checkbox"/> black<br><input type="checkbox"/> gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> Brown<br><input type="checkbox"/> greenish | <input type="checkbox"/> black<br><input type="checkbox"/> gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> brown<br><input type="checkbox"/> greenish | <input type="checkbox"/> black<br><input type="checkbox"/> gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> brown<br><input type="checkbox"/> greenish | <input type="checkbox"/> black<br><input type="checkbox"/> gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> brown<br><input type="checkbox"/> greenish | <input type="checkbox"/> black<br><input type="checkbox"/> gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> brown<br><input type="checkbox"/> greenish |

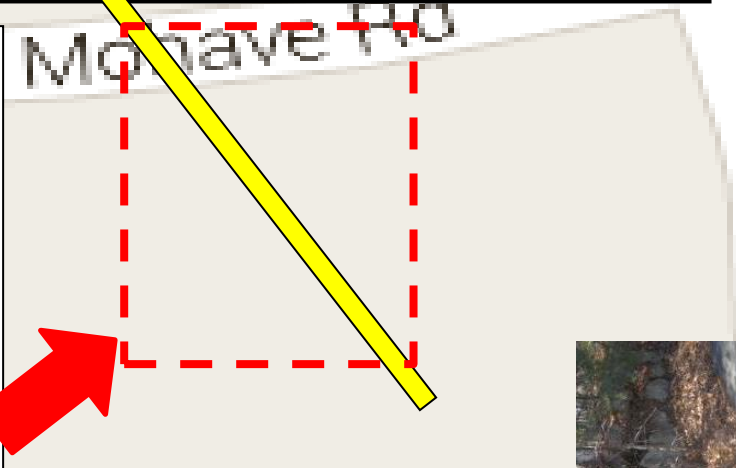
|     |                                                                                             |                                                                                                  |                                                                                             |                                                                                                  |                                                                                                |
|-----|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|
| Key | <br>Diorite | <br>Pink Granite | <br>Granite | <br>Granodiorite | <br>Rhyolite |
|-----|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|

Place your compass on the caution tape line.

Twist it until the orange arrow lines up with "N" for North.

Take a picture of the compass on the tape line. And paste the picture in the red box – Line up the caution tape in the picture with the yellow line on the page

Label N for North and then label which direction the caution tape points!



**Step 4:**  
Look at the exposed outcropping of bedrock just off the sidewalk.

**Which rock type is it?** \_\_\_\_\_



**Step 3:**  
Look into the wooded area for the largest boulder **Which rock type is it?**

\_\_\_\_\_

Is that the same or different from the bedrock?

**Step 2:**  
Look into the wooded area for the smaller , unusual boulder. **Which rock type is it?**

\_\_\_\_\_

Is that the same or different from the bedrock?



**Step 1:**  
Look into the wooded area for the smaller boulder **Which rock type is it?**

\_\_\_\_\_

Is that the same or different from the bedrock?

\_\_\_\_\_

Hopi Ave

Indian Hill Rd

Forensic Geology:

Crime Scene:

Rocky Woods

Eye witness:

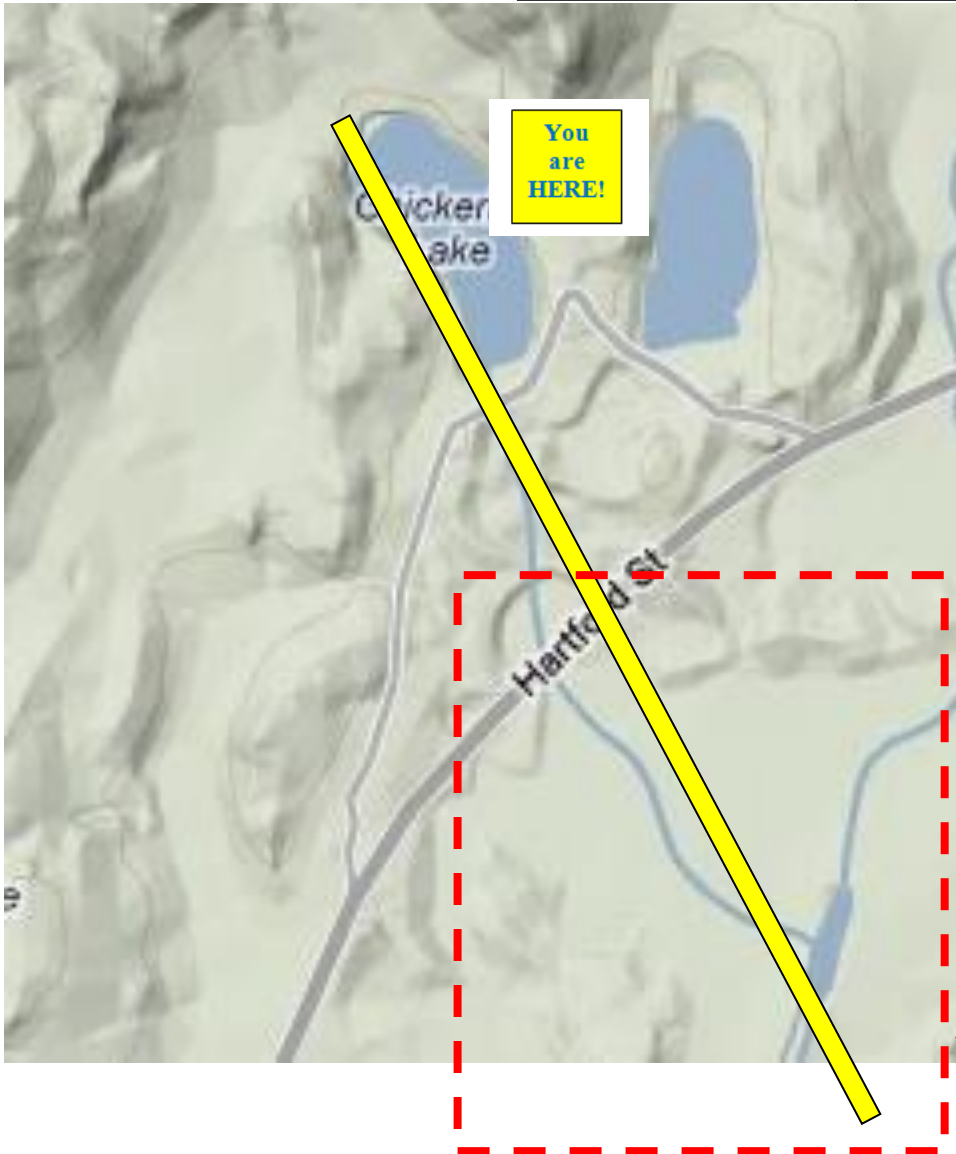
Mrs. Doolan

Forensic Geology:

# Crime Scene: Rocky Woods

Take a picture of the crime scene in front of you - this body of water will help us solve the crime!

*Paste Picture Here*

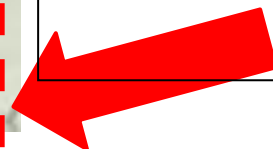


Place your compass on the caution tape line.

Twist it until the orange arrow lines up with "N" for North.

Take a picture of the compass on the tape line. And paste the picture in the red box – Line up the caution tape in the picture with the yellow line on the page

Label N for North and then label which direction the caution tape points!



Answer the 8 questions posted on trees at this station. You may need to ask the eye witness (Mrs. Doolan) or another chaperone for some information to help you answer (especially questions 2 and 3).

**QUESTION 1:** Are there any \_\_\_\_\_ around that feed into this lake?

*Answer :* \_\_\_\_\_

**QUESTION 2:** Towards what direction does the \_\_\_\_\_ ?

*Answer :* \_\_\_\_\_

**QUESTION 3:** About how close is the \_\_\_\_\_ and the nearest \_\_\_\_\_ ?

*Answer :* \_\_\_\_\_

**QUESTION 4:** Is there a \_\_\_\_\_ anywhere near this lake?

*Answer :* \_\_\_\_\_

**QUESTION 5:** Is it cold enough here today for a \_\_\_\_\_ to form?

*Answer :* \_\_\_\_\_

**QUESTION 6:** What is the \_\_\_\_\_ of this body of water here at Rocky Woods?

*Answer :* \_\_\_\_\_

**QUESTION 7:** Do you see any evidence of \_\_\_\_\_ or \_\_\_\_\_ or \_\_\_\_\_ anywhere?

*Answer :* \_\_\_\_\_

**QUESTION 8:** Are there any step-like inclines to indicate \_\_\_\_\_ ?

*Answer :* \_\_\_\_\_

Forensic Geology:

Crime Scene:

Rocky Woods


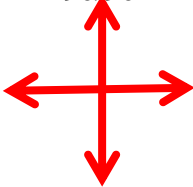
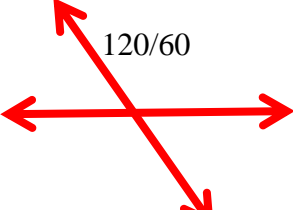

Eye witness:

Mrs. Sperling

Forensic Geology:

# Crime Scene: Rocky Woods

## *Mineral Evidence Testing*

|                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>COLOR</b>                                                                                                                                        | Describe Color:<br><br><i>Paste a picture of the mineral here</i><br>_____                                                                                                                                                                                                                                                                                                                                                    |
| <b>LUSTER</b>                                                                                                                                       | Metallic          Non-metallic          Pearly          Glassy                                                                                                                                                                                                                                                                                                                                                                |
| <b>STREAK</b>                                                                                                                                       | Color of Streak:<br><br><i>Paste picture of streak test here</i><br>_____                                                                                                                                                                                                                                                                                                                                                     |
| <b>HARDNESS</b>                                                                                                                                     | 1 ----- 2 ----- 3 ----- 4 ----- 5 ----- 6+<br>(I can scratch IT with my fingernail)          (I can scratch IT with a penny)          (IT can scratch glass)          (I can scratch IT with porcelain)                                                                                                                                                                                                                       |
| <b>Angle of FRACTURE</b><br><br><i>(Take a picture of the angles you see on the rock and slide to match it to the correct picture on the right)</i> | <p>180 (flakes off in sheets) </p> <p>90/90 </p> <p>120/60 </p> <p>160/20 </p> |



Forensic Geology:

Crime Scene:

Cemetery

Eye witness:

Mrs. Caprio

# Crime Scene: Dale Street Cemetery

1. TAKE a picture of the crime scene and paste in the space below.
2. TAKE a picture of your compass on the caution tape line –twist the compass so the floating arrow is over N for North – Paste the picture in the space provided so the caution tape in the picture lines up with the yellow line on your page! Label N for North and label which direction the caution tape points!!
3. COMPLETE the checklist below by CHECKING all that apply:

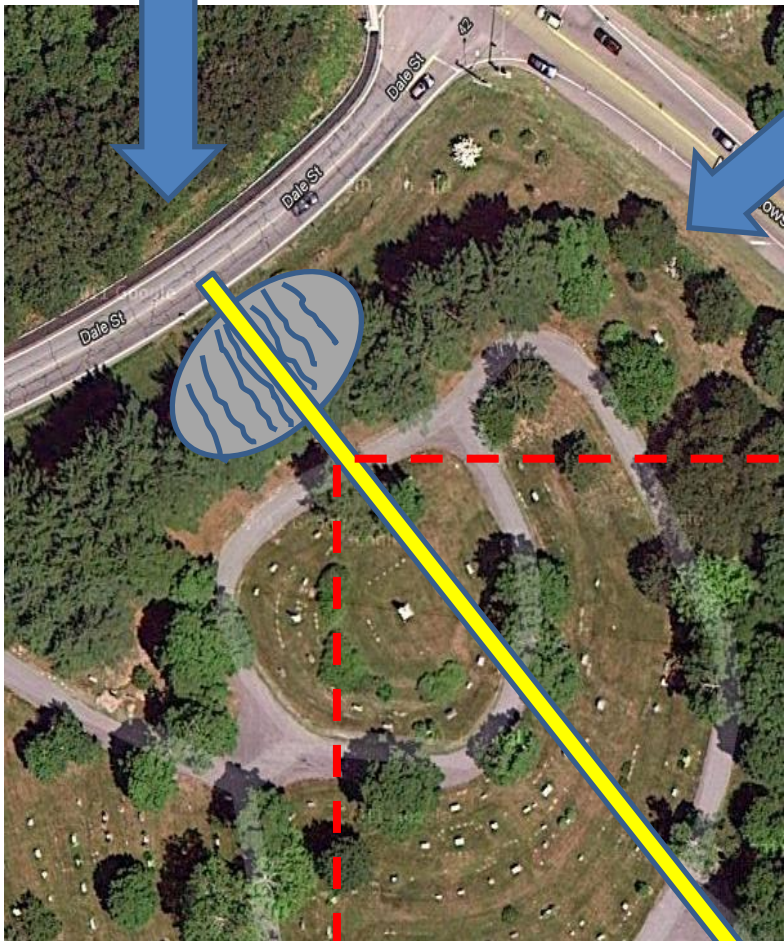
Paste a picture of the exposed bedrock here  
(With your science teacher)

- Rock Surface:**
- Polished
  - Scratched
  - Fractured

- Colors:**
- White
  - Pink
  - Black
  - Brown
  - Dark gray
  - Light gray

- Markings:**
- Parallel lines
  - Perpendicular crossed lines
  - Straight lines
  - Curved lines
  - Deep grooves
  - Shallow grooves

Paste a picture of the exposed bedrock here  
(With your science teacher)



|                                                             |                                                                                                                                                                                                                                                                                               |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Grain Size</b><br>(how big the speckles of a rock are)   | <input type="checkbox"/> Fine-grained<br>(smallest)<br><input type="checkbox"/> Medium-grained<br><input type="checkbox"/> Coarse-grained<br>(biggest)                                                                                                                                        |
| <b>Overall Color</b>                                        | <input type="checkbox"/> Light Colored<br><input type="checkbox"/> Medium Colored<br><input type="checkbox"/> Dark Colored                                                                                                                                                                    |
| <b>Mineral Colors Represented</b><br>(check all that apply) | <input type="checkbox"/> black<br><input type="checkbox"/> dark gray<br><input type="checkbox"/> light gray<br><input type="checkbox"/> white<br><input type="checkbox"/> pink<br><input type="checkbox"/> light brown<br><input type="checkbox"/> brown<br><input type="checkbox"/> greenish |

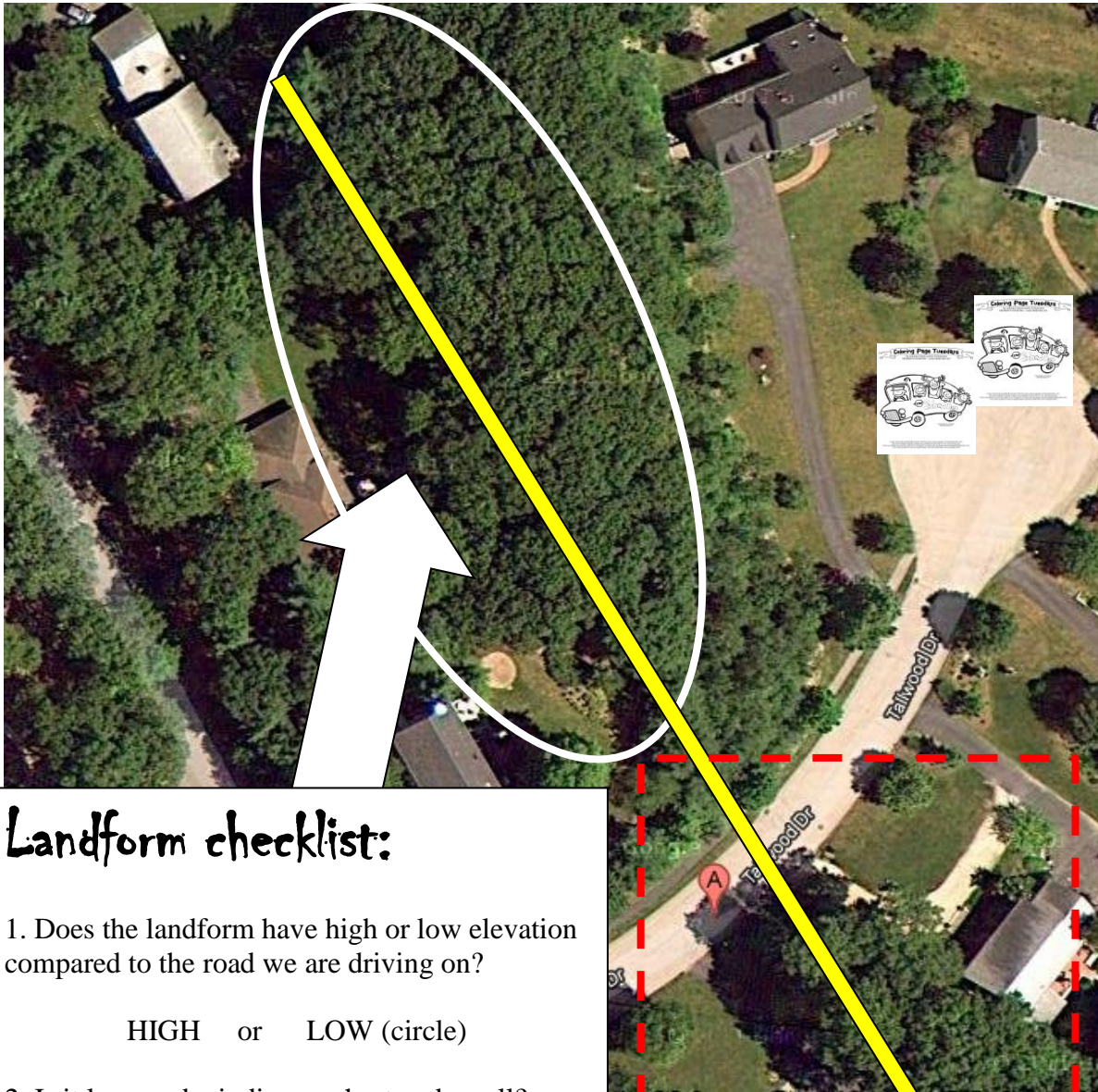
Forensic Geology:

# Crime Scene: Tallwood Road

Eye witness:

Ms. Hurley

# Crime Scene: Tallwood Road



Place your compass on the caution tape line.

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## Landform checklist:

1. Does the landform have high or low elevation compared to the road we are driving on?

HIGH or LOW (circle)

2. Is it long and winding or short and small?

LONG or SHORT (circle)

3. What agent of erosion could have been powerful enough to make this landform?

\_\_\_\_\_

4. Look into your slides and see if this looks like anything of the crimes you learned about!

\_\_\_\_\_

Forensic Geology:

# Crime Scene: Tallwood Road

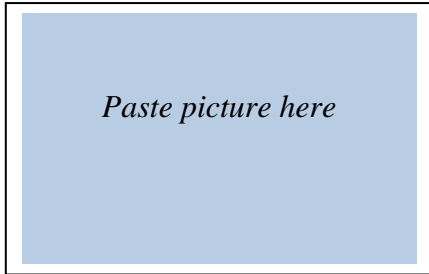
Eye witness:

Ms. Malone

# Sediment Data Collection

## SIZE OF SEDIMENT:

- a.) Place your ruler next to the sediment. Take a picture of a piece of sediment with the ruler next to it.



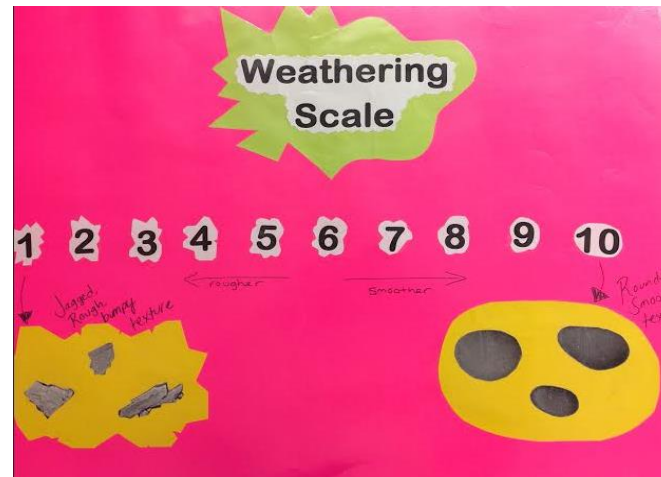
- b.) Using the ruler, measure in CENTIMETERS (cm) the size of the sediment. Measure from one side to another (almost the diameter of the sediment)

Diameter(ish): \_\_\_\_\_ cm

## LEVEL OF WEATHERING :

On a scale of 1-10 CIRCLE how WEATHERED you observe the rock to be.

1 = not weathered  
10 = VERY weathered



# Tree Data Collection

## TREE SELECTION:

Circle the tree type you observe here:



Maple



Palm



Pine

## LEAF/NEEDLE SKETCH:

Take a picture of the leaf/needle you observe on this tree:

