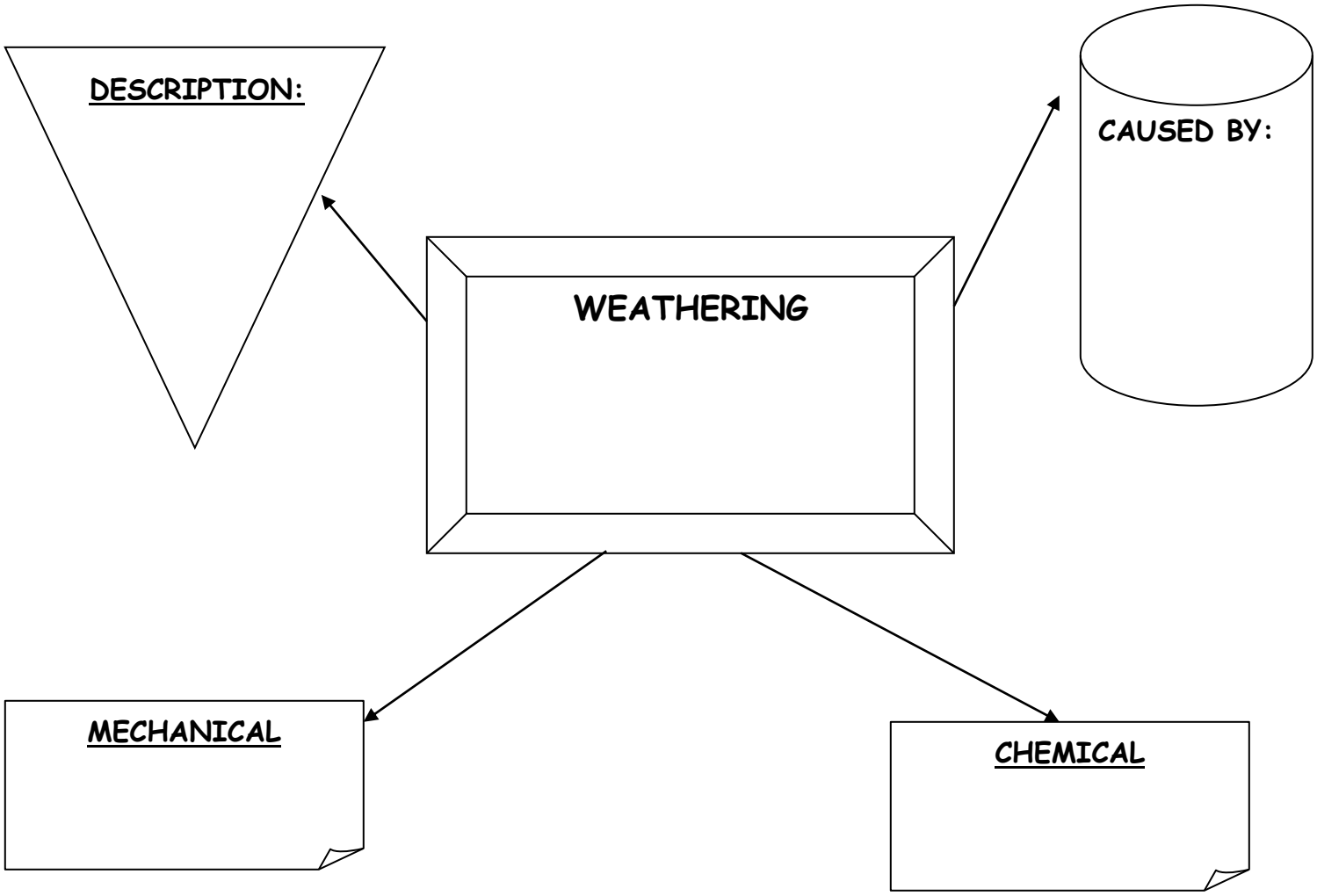

Freezing and thawing

Release of pressure

Plant growth

Actions of animals

Abrasion

Water

Oxygen

Carbon Dioxide

Living Organisms

Acid Rain

Student Activity: Water, water everywhere

Directions:

1. Fill each jar about 2/3 full of water.
2. Place two candies in each jar.
3. Allow one jar to remain on the counter.
4. Shake the other jar for 15 seconds.
5. Record your observations and answer the questions below.

Jar motion	**Observations**
Still	
Shaken	

*If the water in the jars represents two different rivers, what does the candy represent?_____

*What is the major difference in the environment of the two "rocks"?_____
_____

*What type of weathering is modeled?_____

*Explain which "environment" has greater erosion and why._____
_____
_____
_____

Teacher Demo: The effects of rain

Directions:

1. Pour 150ml of acid into Beaker A.
2. Pour 150ml of water into Beaker B
3. Place one piece of chalk in the acid and one in the water.
4. Observe what happens.

Type of Liquid	**Observation of Chalk**
Acid	
Water	

* What did the acid do to the piece of chalk? _____
* How or where do you think this might happen in nature? _____
_____
* Does what happened to the piece of chalk illustrate physical or chemical weathering?
_____