



# Science Log – 3<sup>rd</sup>

## Topic: Matter

### Learning Goals:

1. Conduct an investigation to determine the effect of water temperature on a solid dissolving.
2. Classify solids based on their ability to dissolve in water.
3. Categorizing (sort) different types of matter we discover in nature.

<b>K</b> What do you already <b>know</b> about the topic?	<b>W</b> What do you <b>want to know</b> about the topic?	<b>L</b> What did you <b>learn</b> about the topic?

## Vocabulary

Observation	Statement made from using your senses
Matter	Anything that has mass and takes up space (volume)
Mass	The amount of matter (stuff) in an object
Gas	Assumes the shape of its container; assumes the volume of its container; compressible; flows easily
Liquid	Assumes the shape of its container; has a definite volume; not easily compressible; flows easily
Solid	Retains a fixed shape; has a definite volume; not easily compressible; does not flow easily



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## Disappearing Sugar Cube

**Supplies:** two clear cups or jars, two sugar cubes, cold water, hot water, pencil or pen

**Directions:**

1. Fill one clear cup halfway with cold water.
2. Fill a second cup halfway with hot water.
3. Drop one sugar cube into each cup at the same time.
4. Observe, while counting for 30 or 45 seconds.
5. Observe the effect of the water temperature on how quickly the sugar cube dissolves.
6. Record your results below by drawing what each sugar cube looks like after 30-45 seconds.

**Draw results here:**

COLD WATER

HOT WATER



How does the temperature of water effect how a solid dissolves?

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