

Soapy Transformations Demo

Demo

Directions: Make observations before, during and after a bar of Ivory soap is placed in the microwave for 90 seconds.

My Observations		
Before	During	After

Break Down the Prompt

Directions: Read the prompt below. Annotate the prompt by underlining key words and phrases and circling any unknown vocabulary.

Prompt: Develop a model to describe how the Ivory soap changes when it is heated in the microwave. In your model, be sure to show how the motion and density of the particles may have changed and describe the states of matter. Your final model should include both a diagram and a written explanation.

Soapy Transformations Demo

Demo

Directions: Make observations before, during and after a bar of Ivory soap is placed in the microwave for 90 seconds.

My Observations		
Before	During	After

Break Down the Prompt

Directions: Read the prompt below. Annotate the prompt by underlining key words and phrases and circling any unknown vocabulary.

Prompt: Develop a model to describe how the Ivory soap changes when it is heated in the microwave. In your model, be sure to show how the motion and density of the particles may have changed and describe the states of matter. Your final model should include both a diagram and a written explanation.

EUREKA Video-Matter Unit

Sections 16

#16 MOLECULES IN SOLIDS

- The 3 states of matter are _____ and _____.
- In a solid the "little lumps" act as if they are held together by _____.
- The little lumps are scientifically called _____.



#17 MOLECULES IN LIQUIDS

- Solids keep their _____.
- Liquids have no shape of their own. They take on the shape of the _____ that they are in.
- Liquids will flow due to the force of _____.
- When a solid is heated enough, the molecules move around freely and no longer stay in a _____.
- When liquids are cooled enough, they turn into _____.



- The freezing point of water is _____ C.
- The boiling point of water is _____ C.
- Room temperature is about _____ C.
- Normal body temperature is _____ C.
- Mr. Celsius' hotness meter is a _____.



#21 TEMPERATURE vs HEAT

- The degree of hotness = _____.
- The quality of hotness = _____.
- The temperature of water depends on the _____ of its molecules.
- The heat of the water depends on its _____ and the _____ of its molecules.



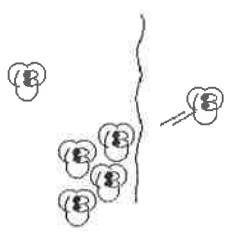
Episode 5 - A Matter of State

Name _____
Period _____ Date _____

The World of Chemistry

The video states that states of matter may be changed. What is needed to make this possible?

- What is the relationship between the temperature and pressure of a gas?
- Describe, at the molecular level, how temperature affects the pressure of a gas.
- How is liquefied natural gas produced?



#19 EXPANSION AND CONTRACTION

- The molecules in a gas move in all _____.
- Hot molecules take up more space than _____ molecules.



#20 MEASURING TEMPERATURE

- A man named _____ invented a way of measuring hotness and coldness.

