

POGIL: Phase Changes

Name: _____

Group Members: _____

Why:

Most substances go through a phase change when heated or cooled. Molecules of a substance are held together in either the solid, liquid, or gaseous phase by intermolecular forces. It is necessary to discuss what is occurring at the molecular level in order to explain how an ice cube is melted or how water is boiled.

Learning Objective:

Determine what is occurring on the molecular level during a phase change.
Construct a heating or cooling curve when given supporting information.

Vocabulary:

fusion (melting), solidification, condensation, boiling, vaporization, kinetic energy

Model 1: Representations of Molecules in Three Phases:



Task:

1. Label each arrow (D, E, F, G) in Model 1 with the appropriate phase change (boiling, condensation, fusion/melting, solidification/freezing).

Key Questions:

2. Which arrow(s) in Model 1 indicate the addition of energy? _____
3. Which term, endothermic or exothermic, is used to describe the situation when energy is added into a system from the surroundings?
4. Which arrow(s) in Model 1 indicate the release of energy? _____
5. Which term, endothermic or exothermic, is used to describe the situation when energy is released into the surroundings by the system?

Phase Changes Pogil 2005 2006 Answers

Clifford Lane



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