

# 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.

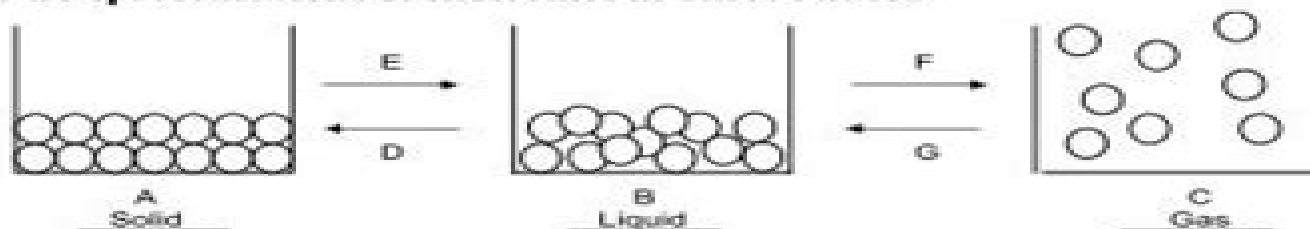
## Learning Objective:

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 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 2020answers

**Victor M. Corman**



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**Phase Changes at Extremes** Jonathan Curley, 2010

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