



Name: _____

Date: _____

Question 1: Kinetic Theory and Absolute Zero (2 points)

a. What is absolute zero? What is the temperature of absolute zero on the Kelvin and Celsius scales? (1 point)

Absolute zero is the lowest possible temperature, it is the point at which the atoms are at rest.

Absolute zero is measured at -273.15 degrees on a Celsius scale, while it is measured at 0 degrees on a Kelvin scale.

b. What does the kinetic theory say about the kinetic energy present in solids? (1 point)

The theory claims that the least energetic molecules are those in solid phase, while the most energetic particles are those in the gas phase. The average kinetic energy of the particles in a material can be calculated from its temperature.

Question 2: Phase Diagrams (3 points)

a. Describe what a phase diagram is. (1 point)

The graph which shows under what conditions of temperature and pressure distinct phases of matter occur is called phase diagram.

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