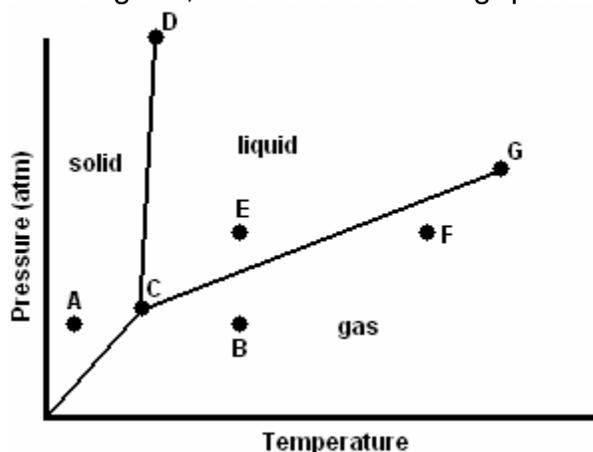


Phase Change Homework

- 1) Explain the difference between evaporation and vaporization.
- 2) Explain what happens on a molecular level when a chemical compound melts.
- 3) Using this phase diagram, answer the following questions:



- a) If this substance is at the pressure and temperature of point E and the temperature is raised so that the pressure and temperature are equal to that of point F, what phase transition will occur?
- b) What is the significance of point C?
- c) If I have a substance at the conditions of temperature and pressure of point G and increase the temperature, what phase will the substance be?
- d) If this substance is at the pressure and temperature of point B and the pressure is raised so that the pressure and temperature are equal to that of point E, what phase transition will occur?