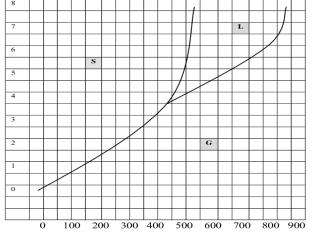
Name	Date

(#1) For each of the questions on this worksheet, refer to the phase diagram for mysterious compound \mathbf{X} .



Pressure (atm)
Labels:
S – solid
L- liquid
G - gas

Temperature (degrees Celsius)

(1) If you were to have a bottle containing compound X in your closet, what phase would it most likely be in? _____

- (2) At what temperature and pressure will all three phases coexist?
- (3) If you have a bottle of compound X at a pressure of 3 atm and temperature of 100^{0} C, what will happen if you raise the temperature to 400^{0} C?
- (4) Why can't compound X be boiled at a temperature of 200°C?
- (5) Is it possible to drink compound X?
- (6) What is the critical temperature of compound X?