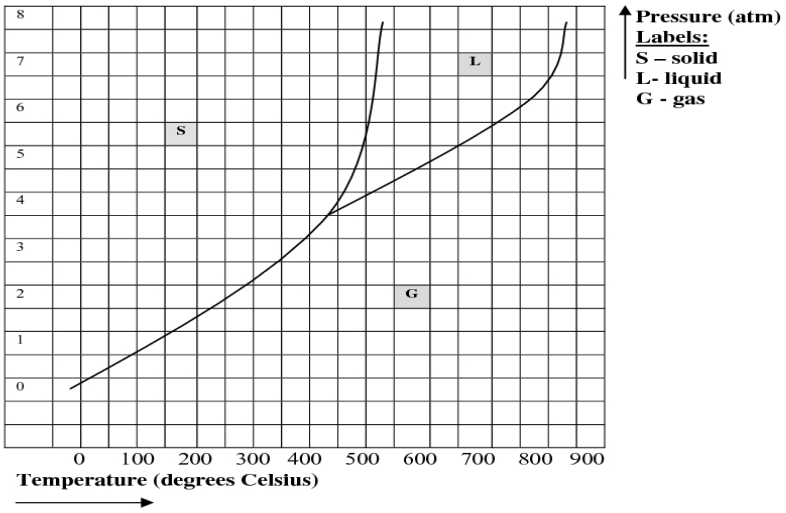
Phase Diagram Worksheet Name _____ Date _____

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



(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 100^0C, what will happen if you raise the temperature to 400^0C? _____

(4) Why can't compound X be boiled at a temperature of 200^0C?

_____

(5) Is it possible to drink compound X?

_____

(6) What is the critical temperature of compound X? _____