

Name: _____

Date: _____

Phase Change Key

1. What is the critical temperature of compound X?

750°C

2. If you were to have a bottle containing compound X in your closet, what phase would it most likely be in?

Gas

3. At what temperature and pressure will all three phases coexist?

40 atm 350°C

4. If I have bottle of compound X at a pressure of 45 atm and temperature of 100°C, what will happen if I raise the temperature to 400°C?

melt solid liquid

5. Why can't compound X be boiled at a temperature of 200°C? Liquid phase does not exist until 350°C at any pressure

6. If I wanted to, could I drink compound X?

No you would be a burnt pancake at 351°C & 42 atm

