

# Determining the Phase Changes of Carbon Dioxide Worksheet

## Discussion Questions

1. Note what was happening in the apparatus at the following moments during the demonstration.

*a.* When the solid  $\text{CO}_2$  was first enclosed in the apparatus

*b.* When the pressure stabilized (also give the pressure measurement here)

*c.* When the solid  $\text{CO}_2$  was covered by the liquid carbon dioxide

*d.* When the pressure in the apparatus was released

2. Explain how the triple point was reached within the apparatus.

3. Below is a phase diagram for  $\text{CO}_2$ . Label each area on the diagram with the appropriate phase. Also mark and label the triple point.

