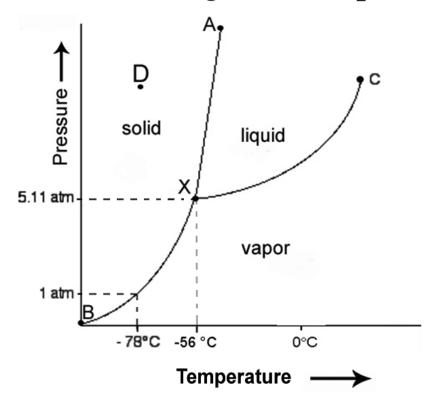
General Chemistry Mr. MacGillivray Quiz #28: Phase Diagrams

Phase Diagram for CO₂



1. Given the phase diagram for carbon dioxide, illustrated above, state what phase or phases of CO_2 is/are present at each of the following temperature-pressure conditions. Circle the answer(s).

a)	at any point on between A and X on curve AX:	S	L	G
b)	at point X	S	L	G
c)	at 0 °C and 5.11 atm	S	L	G
d)	at -78 °C and 1 atm	S	L	G

- 2. Based on the phase diagram above, what effect would each of the following changes have on a sample of CO₂ at point D? Fill in the blanks.
 - a) increasing the temperature to 0 °C at constant pressure: It changes from ____ to ____
 - b) decreasing the pressure to 0.300 atm at constant temp. : It changes from ____ to ____

3. When CO₂ is a solid it is called "dry ice". What type of intermolecular forces of attraction is responsible for holding CO₂ molecules together with other CO₂ molecules in dry ice? Circle the answer.

Intermolecular forces of attraction

Intramolecular forces of attraction