Angeles City Science High School

Science 10

**Name:** Paul Gerald D. Pare **Section:** 10-Hawking

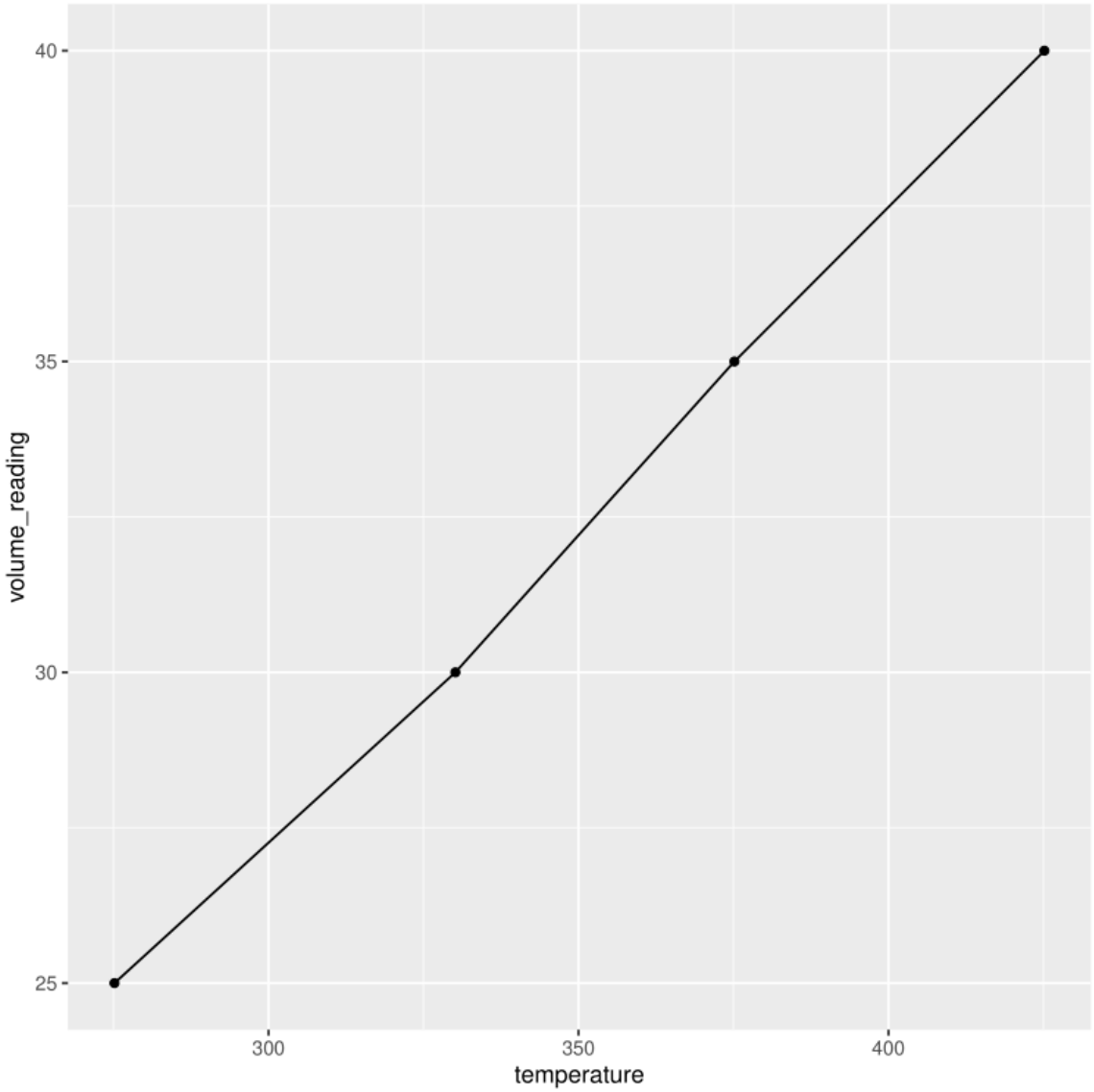
## Activity 6. Complete Me!

**Objective:** To illustrate the mathematical equations above, let us have the following:
**Direction:** A gas cylinder was measured to have different volumes at different temperature as shown in Table. Complete the table with the necessary information

| Trial | Volume Reading (mL) | Temperature Reading | Temperature (K) |
|---|---|---|---|
| 1 | 25 | 2 | 275.15 |
| 2 | 30 | 57 | 330.15 |
| 3 | 35 | 102 | 375.15 |
| 4 | 40 | 152 | 425.15 |

**Note: To convert C to K, use this formula: K = C + 273.15**

Plot the data from the table in a graph by placing the volume in the y-axis and temperature at Kelvin scale in the x-axis




How is the graph different from the graph you obtained in Activity 4?

This graph is the opposite of what is from activity 4. In activity 4, the graph is inversely proportional and it follows the Boyle's law while on this graph, it is directly proportional in which if one variable increases, the other one increases too. This graph also follows the Charle's law in gas laws.