

Writing Activity and Performance Task 1

Due Date: May 6, 2021

Total Marks: 10

○ **Instructions:**

- Gather your work in a PowerPoint presentation.
- Points will be deducted for late submission.
- Make sure that your work is creative and understandable.

○ **Question 1 (How are the depth of a dive and altitude related):**

Most divers dive at locations that are at or near sea level in altitude. However, divers in Saskatchewan, Alberta, and British Columbia, Canada, as well as much of the northwestern United States, dive at higher altitudes.

How depth and altitude related	
Altitude (m)	Atmospheric pressure (atm)
0	1
600	0.930
1200	0.864
2400	0.743
3000	0.688

1. Use the data in the table to make a graph of atmospheric pressure versus altitude. (y-axis: atmospheric pressure, x- axis: altitude). Do not forget the axis titles and the title of the graph.
2. Use the graph to answer the following questions:
 - How are the altitude and the atmospheric pressure related? (Inversely or directly proportional)
 - What will be the pressure when the altitude is 1800? Find the answer in atm, mmHg and kPa.

- **Question 2 Complete the table:**

	Boyle's law	Charles's law	Gay – Lussac's law
Statement			
Formula			
What is held constant			
Relationship (i.e. Inverse, direct)			
Graph			