

Gas Law Poster Project

The gas laws describe the relationship of **pressure** (P), **volume** (L), **temperature** (K) and **quantity** (moles,) as they relate to ideal gases. Gas laws are applied to many interesting activities and phenomenon. Having an understanding of gas laws, help us to better understand these systems.

Your assignment:

1. Relate the appropriate gas laws to one of the following topics: (Additional topics have to be approved by the teacher)

How Hot Air Balloons Operate
Mountaineering at High Altitude
Flight and Pilot Safety at High Altitudes
Scuba Diving Preparation and Precautions
How Submarines Work
The Science of Airbags
Gas Laws in Space
Cooking at High Altitudes
Natural Phenomenon: Lake Nyos
How Car Engines Work

2. Research this topic and identify the gas law(s) that apply.
3. Prepare a poster explaining the topic and application of the gas laws. (15 points)
4. Complete the gallery walk finding information from other posters. (15 points)

Poster Rubric

Category	Information	Points
Picture(s)	<ul style="list-style-type: none">• Two or more pictures/diagram are included on poster.• May be printed or hand drawn	2
Gas Law(s)	Gas Law(s) that apply to topic are clearly identified	1
Information	<ul style="list-style-type: none">• Background information about the topic is given• Information connecting the topic to the gas law(s) is completely provided	10
Appearance	<ul style="list-style-type: none">• Poster is neat in appearance.• Thought and effort are clearly shown.• Poster is on a 8.5" x 11" piece of paper. No lined paper.	2

Gallery Walk (15 points)

Complete the following gallery walk worksheet while reviewing other students' projects. Points will be given based on completeness AND accuracy. Incomplete or inaccurate information will result in points being lost.

Topic	Gas Law(s)	Information
How Hot Air Balloons Operate		
Mountaineering at High Altitudes		
Flight and Pilot Safety at High Altitudes		
Scuba Diving Preparation and Precautions		
How Submarines Work		
The Science of Airbags		
Gas Laws in Space		
Cooking at High Altitudes		
Natural Phenomenon: Lake Nyos		
How Car Engines Work		