UNIT 8

PROJECT:
APPLICATION OF GAS LAWS IN THE REAL WORLD

The gas laws describe the relationship of pressure (atm), volume (L), temperature (K), and quantity (moles) as they relate to ideal gases. The relationship of these variables is described in the notes given to you. 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:
    - How Hot Air Balloons Operate
    - Guidelines for Mountaineering Expeditions at High Altitude
    - Flight and Pilot Safety at High Altitudes
    - Scuba Diving Preparation and Precautions
    - Submarines
    - The Science of Airbags
    - Gas Laws in Space
    - Cooking at High Altitudes
    - Natural Phenomenon: Lake Nyos
    - How Car Engines Work
    - Other (please get topic approved by teacher)

2. Research this topic and identify the gas law(s) that apply.
3. Prepare a presentation explaining the topic and application of the gas law(s). Make your presentation interesting and visually appealing! Include pictures, videos, etc.

Do thorough research and create a presentation to tell me what you learn about some specific application of the gas laws. Be sure to include background information on your application (for example, if you decide to investigate blimps, tell me about the history of blimps, how they evolved, what they are used for. Be sure to include names, dates, and images!) Show me that you know HOW does this application work? How does it/could it relate to your life? You at least 5 resources and cite them in a works cited section. BE CREATIVE! Please refer to the grading rubric below