Earth's Atmosphere Virtual LAB Chapter 12.1 - Pg. 415

The Nature of Science

Name _____

What is the structure of Earth's atmosphere?

Question 1: Which layer of the atmosphere do you live in? What kinds of meteorological phenomena can be found in this layer?

Question 2: If a rocket were launched to a height of 210 kilometers above sea level, which layer of the atmosphere would it rise to? What kinds of meteorological and astronomical phenomena might the rocket encounter in that layer?

Question 3: What is the ozone layer? In which layer of the atmosphere is it found? What is the importance of the ozone layer to life on Earth?

Question 4: Describe the pattern of air density changes within layers of the atmosphere. Describe the pattern of air pressure changes within layers of the atmosphere. What is the relationship between air density and air pressure?

Question 5: Describe the pattern of temperature changes within the layers of the atmosphere. Why do you think temperature changes follow this unique pattern?

What is the structure of Earth's atmosphere?

Phenomenon	Atmospheric Layer	Altitude (km)	Density (% of Sea Level Density)	Pressure (Pa)	Temperature (°C)
		0			
		5			
		10			
		25			
		50			
		60			
		75			
		100			
		150			
		200			
		400			