Grade 7 Fourth Quarter: LAYERS OF THE EARTH'S ATMOSPHERE

Name:			
Year and	Section:		
Teacher:			

Worksheet 3:

 Directions: Analyze the graph and answer the following questions.



Altitude vs Temperature Graph

Guide Questions:

A. What happened to the temperature when altitude increases in the following layers of the atmosphere?

- Troposphere
- A. increase
- B. decrease

- 2. Stratosphere
- A. increase
 - B. decrease

- 3. Mesosphere
- A. increase
- B. decrease

- Thermosphere
 What is the basis u
- A. increase B. decrease d for dividing the atmosphere

B. What is the basis used for dividing the atmosphere into different layers?
 A. altitude B. temperature
 Determine which layer of the atmosphere in the atmosph

II. Directions: Determine which layer of the atmosphere is described by each characteristic listed below. Choose your answer from the word bank.

Troposphere	Stratosphere	Mesosphere
Thermosph	ere Exc	osphere

- The meteors are burned up into smaller fragments.
- 2. It contains the ozone layer.
- 3. It is closest to the Earth's surface.
- 4. The coldest layer.
- 5. It is where the weather conditions occur.
- 6. Airplanes can travel on this layer.
- The hottest layer.
- 8. Outermost layer.
- It is where aurora borealis occur.
- 10. Jet planes can fly on this layer.

BIG IDEA: Atmosphere is the layer of gases surrounding the Earth. It is composed of different layers based on its temperature.

Layers of the Atmosphere

The Troposphere is the layer closest to the earth's surface with an average height of 13 km. It is the region where almost all the weather conditions take place. Its temperature generally decreases with increasing altitude.

The Stratosphere has a very thin air and intensely heated by the sun's rays that is why the temperature increases with altitude. It starts just above the troposphere with an average height of 50 km above the earth's surface. It is the region where the ozone layer formed.

The Mesosphere is directly above the stratosphere, it extends from about 50 to 80 km. Its temperature decreases with increasing altitude and is considered as the coldest layer of the atmosphere. When meteors reached this layer, the meteors burned up into smaller fragments.

The Thermosphere's temperature increases extremely high with altitude. It is the region where the famous aurora borealis formed. The altitude range is about 85km to 500km.

The Exosphere is the outermost layer of the earth's atmosphere. It extends from the top of the thermosphere to 10,000 km above the earth.

III. DIRECTIONS: Label each layer with the appropriate name and write the correct temperature range and altitude range of each layer opposite their name. Choose your answer in the box below.



Layers Thermosphere	Temperature range 120°C - 2000°C	Altitude range 0km -13km
Troposphere	15°C - 60°C	50km -85km
Mesosphere	60°C - 15°C	13km -50km
Exosphere	15°C - 120°C	500km-10,000km
Stratosphere	0°C - 1700°C	85km-500km

Answers For Section 17 Atmosphere Characteristics Worksheet

Rosina Ehmann

Answers For Section 17 Atmosphere Characteristics Worksheet:

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