

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

Name: \_\_\_\_\_

Year and Section: \_\_\_\_\_

Teacher: \_\_\_\_\_

## Worksheet 3:

I. 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?

- |                 |             |             |
|-----------------|-------------|-------------|
| 1. Troposphere  | A. increase | B. decrease |
| 2. Stratosphere | A. increase | B. decrease |
| 3. Mesosphere   | A. increase | B. decrease |
| 4. Thermosphere | A. increase | B. decrease |

B. What is the basis used for dividing the atmosphere into different layers? A. altitude B. temperature

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
Thermosphere		Exosphere

- The meteors are burned up into smaller fragments.
- It contains the ozone layer.
- It is closest to the Earth's surface.
- The coldest layer.
- It is where the weather conditions occur.
- Airplanes can travel on this layer.
- The hottest layer.
- Outermost layer.
- It is where aurora borealis occur.
- 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 of the Atmosphere




Temperature range


Altitude range


### Layers

Thermosphere  
Troposphere  
Mesosphere  
Exosphere  
Stratosphere

### Temperature range

-120°C - 2000°C  
15°C - -60°C  
60°C - -15°C  
-15°C - -120°C  
0°C - 1700°C

### Altitude range

0km -13km  
50km -85km  
13km -50km  
500km-10,000km  
85km-500km

# Section 3 1 Characteristics Of The Atmosphere

## Worksheet Answers

**Joel L. Horowitz, Steven Kuhrtz**



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