

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

Temperature range

Altitude range

Thermosphere	-120°C - 2000°C	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

Jiyuan Zhang



Answers For Section 17 Atmosphere Characteristics Worksheet:

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Table of Contents Answers For Section 17 Atmosphere Characteristics Worksheet

1. Understanding the eBook Answers For Section 17 Atmosphere Characteristics Worksheet
 - The Rise of Digital Reading Answers For Section 17 Atmosphere Characteristics Worksheet
 - Advantages of eBooks Over Traditional Books
2. Identifying Answers For Section 17 Atmosphere Characteristics Worksheet
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Answers For Section 17 Atmosphere Characteristics Worksheet
 - User-Friendly Interface
4. Exploring eBook Recommendations from Answers For Section 17 Atmosphere Characteristics Worksheet
 - Personalized Recommendations

- Answers For Section 17 Atmosphere Characteristics Worksheet User Reviews and Ratings
- Answers For Section 17 Atmosphere Characteristics Worksheet and Bestseller Lists
- 5. Accessing Answers For Section 17 Atmosphere Characteristics Worksheet Free and Paid eBooks
 - Answers For Section 17 Atmosphere Characteristics Worksheet Public Domain eBooks
 - Answers For Section 17 Atmosphere Characteristics Worksheet eBook Subscription Services
 - Answers For Section 17 Atmosphere Characteristics Worksheet Budget-Friendly Options
- 6. Navigating Answers For Section 17 Atmosphere Characteristics Worksheet eBook Formats
 - ePub, PDF, MOBI, and More
 - Answers For Section 17 Atmosphere Characteristics Worksheet Compatibility with Devices
 - Answers For Section 17 Atmosphere Characteristics Worksheet Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Answers For Section 17 Atmosphere Characteristics Worksheet
 - Highlighting and Note-Taking Answers For Section 17 Atmosphere Characteristics Worksheet
 - Interactive Elements Answers For Section 17 Atmosphere Characteristics Worksheet
- 8. Staying Engaged with Answers For Section 17 Atmosphere Characteristics Worksheet
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Answers For Section 17 Atmosphere Characteristics Worksheet
- 9. Balancing eBooks and Physical Books Answers For Section 17 Atmosphere Characteristics Worksheet
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Answers For Section 17 Atmosphere Characteristics Worksheet
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Answers For Section 17 Atmosphere Characteristics Worksheet
 - Setting Reading Goals Answers For Section 17 Atmosphere Characteristics Worksheet
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Answers For Section 17 Atmosphere Characteristics Worksheet
 - Fact-Checking eBook Content of Answers For Section 17 Atmosphere Characteristics Worksheet

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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from the first circuit if you use a 12 0 12 transformer then use a 24v relay you can also check this circuit by connecting with a 0 12 transformer with a 12v relay use 500ma to 1 a transformer circuit diagram 2

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