

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

Layers of the Atmosphere	Temperature range	Altitude range
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
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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

Section 3 1 Characteristics Of The Atmosphere

Worksheet Answers

Wolfgang Guggemos



Section 3 1 Characteristics Of The Atmosphere Worksheet Answers:

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Quarter 4 Mineral Minerals are a gift of God s

grace Every day we touch them seeing the diamond in an engagement ring or a copper chain with a cross on it Minerals are touched on in video games like Minecraft and Mineral Valley™ making them more a part of our daily experience Salt one vital mineral helps maintain the fluid in our blood cells and is used to transmit information in our nerves and muscles Also Jesus told his followers that we are the salt of the earth Matthew 5:13 something thus needed for health and flavor Here is a God honoring book that reveals the first mention of minerals in the Bible symbolic usages their current values in culture and society and their mention in heaven Proposed Fallon Range Training Complex Requirements, Fallon Naval Air Station (NAS) ,2000 **Ready-to-Use Reading Proficiency Lessons and Activities** Gary R. Muschla,2003-02-27 This volume of Ready to Use Reading Proficiency Lessons Activities gives classroom teachers and reading specialists a dynamic and progressive way to meet curriculum standards and competencies at the tenth grade level It provides stimulating and effective ways to help students master basic reading and language content and prepare to demonstrate their knowledge at the appropriate level **Holt Science and Technology** Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-05 *Te HS&T 2007 Shrt Crs M* Holt Rinehart & Winston,2007 **Glencoe Science: The air around you** ,2002 **First Draft Outline** Karen S. Wiesner,2022-12-27 Finish an outline so complete it reads like a first draft Say goodbye to writing and rewriting with no results Starting and finishing your story has never been easier First Draft Outline provides you with a sure fire system to reduce time intensive rewrites and avoid writing detours Award winning author Karen S Wiesner s method shows you how to create an outline so detailed and complete that it actually doubles as your first draft Flexible and customizable this revolutionary system can be modified to fit any writer s approach and style Plus comprehensive and interactive worksheets make the process seem less like work and more like fun This invaluable resource also includes Itemized and flexible schedules to keep you focused each and every day Detailed worksheets to guide you through the outlining process Completed sample worksheets inspired by best selling books Tips for outlining projects already in development Brainstorming techniques to keep you motivated Goal sheets for getting and keeping your career on track Many aspiring and experienced writers toss out hundreds of pages and waste valuable time before they have a workable first draft of a story You don t have to fall into this category anymore With First Draft Outline you ll have all the tools you need to write your masterpiece Te HS&T J Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2004-02 Resources in Education ,1998 **Glencoe Science** McGraw-Hill Staff,2001-09 *Collins Cambridge Lower Secondary English - Lower Secondary English Teacher's Guide: Stage 8* Julia Burchell, Mike Gould, Lucy Birchenough, Clare Constant, Naomi Hursthouse, Ian Kirby, Emma Page, Tom Spindler,2021-06-07 The Collins Cambridge Lower Secondary English series offers a skills building approach to the Cambridge Lower Secondary English curriculum framework 0861 from 2020 The Stage 8 Teacher s Guide provides comprehensive practical support with lesson plans worksheets and PowerPoints for every unit of the Student s Book **Air Sparging** Keith A. Fields,2002 Site characterization and Feasibility Analysis Air Sparging

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