

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



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

JS Bruner



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and future A second keynote will be given by Flavia Marzano from the National board for innovation and Italian digital agenda on the topic of Innovation New visions not just new technologies The second day Keynote will be given by Roberto Santoro President of the European Society of Concurrent Engineering Network ESoCE Net on the topic of People Olympics for healthy and active living A people driven social innovation platform In addition to the main themes of the conference there are a number of specialist mini tracks on topics including Innovation and strategy Entrepreneurship education in action The theory and practice of collaboration in entrepreneurship and Challenges for entrepreneurship and innovation in the 21st Century With an initial submission of 275 abstracts after the double blind peer review process there are 88 Academic research papers 6 PhD research papers 1 Masters Research paper 4 work in progress papers and 1 Non academic paper published in these Conference Proceedings These papers represent research from Australia Brazil Bulgaria Colombia Croatia Cyprus Czech Republic Denmark Egypt Finland France Germany Ghana Greece Hungary India Iran Ireland Israel Italy Japan Kazakhstan Kuwait Lithuania Malaysia Mexico Netherlands New Zealand Nigeria Norway Poland Portugal Romania Romania Russia Russian Federation Saudi Arabia South Africa Spain Sweden Thailand Thailand UK and USA

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web feb 12 2020 productivity design for manufacturing and assembly dfma structural steel steel has high strength to weight ratio it has the equivalent strength of traditional construction material that are triple the weight of steel steel can also be prefabricated with highly accurate automation machineries or facilities why use structural steel

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web since the steel used in almost every situation in the construction industry there is no single is codebook to refer to

structural steel design we have combined the list of all the available codes for structural steel their nature

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web the design methodology is based on the latest indian standard code of practice for general construction is 800 2007 the subject covers all the necessary components such as material specifications connections and elementary design of structural members for designing industrial steel structures

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web 4 code the code of standard practice for steel buildings and bridges as published by the american institute of steel construction column a structural element that usually carries its primary loads in compression or tension parallel its axis column base usually a thick plate at the bottom of a column through which anchor bolts mechanically connect

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web design codes and standards the eurocodes are a set of structural design standards developed by cen european committee for standardisation to cover the design of all types of structures in steel concrete timber masonry and aluminium in the uk they are published by bsi under the designations bs en 1990 to bs en 1999 each of these ten

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web jan 1 1993 eurocode 3 design of steel structures en 1993 eurocode 3 applies to the design of buildings and other civil engineering works in steel it complies with the principles and requirements for the safety and serviceability of structures the basis of their design and verification that are given in en 1990 basis of structural design

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web eurocode 3 design of steel structures part 1 8 design of joints this national standard is the identical implementation of en 1993 1 8 2005 and is adopted with permission of cen avenue marnix 17 1000 brussels confirmed 2016 published by ss en 1993 1 8 2010 2016 en 1993 1 8 2005 ics 91 010 30 singapore standard

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web structures modern design codes on steel concrete composite members such as american chinese european and japanese codes do not provide guidance on the use of high strength construction materials such as the high strength concrete and high tensile steel section this

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web design codes for composite structures eurocode 1 for loadings eurocode 2 for concrete properties and some of the concrete related checks such as longitudinal shear eurocode 3 many parts for construction stage design of pure steel beam and profiled steel sheeting eurocode 4 part 1 1 general rules of buildings

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web jul 13 2023 section 11 design of cold formed steel open sections sheet profiles hollow sections and sheet pile sections section 12 fire resistant design section 13 performance based design guidance for particular types of structures including guidance on general maintenance of steel structures

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web ansi accredited procedures to provide a uniform practice in the design of steel framed buildings and other structures the intention is to provide design criteria for routine use and not to provide specific criteria for infrequently encountered problems which occur in the full range of structural design

