

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

Section 3 1 Characteristics Of The Atmosphere

Worksheet Answers

K Morrison



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Transportation Controls to Reduce Automobile Use and Improve Air Quality in Cities Joel L. Horowitz, Steven Kuhrtz, 1974

Monthly Weather Review ,1993

ECIE2015-10th European Conference on Innovation and Entrepreneurship Renata Paola Dameri, Roberto Garelli and Marina Resta, 2015-08-24 These proceedings represent the work of contributors to the 10th European Conference on Innovation and Entrepreneurship ECIE 2015 hosted this year by The University of Genoa Italy on the 17 18 September 2015 The Conference Chair is Prof Luca Beltrametti and the Programme Co chairs are Prof Renata Paola Dameri Prof Roberto Garelli and Prof Marina Resta all from the University of Genoa ECIE continues to develop and evolve Now in its 10th year the key aim remains the opportunity for participants to share ideas and meet the people who hold them The scope of papers will ensure an interesting two days The subjects covered illustrate the wide range of topics that fall into this important and growing area of research The opening keynote presentation is given by Marco Doria Mayor of Genoa on the topic of Innovation and entrepreneurship in Genoa past present 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

Remote Sensing and the Atmosphere Remote Sensing Society. Conference,1982 *Glencoe Science* McGraw-Hill Staff,2001-09 The pharmaceutical journal and transactions ,1881 **The Pharmaceutical Journal ...** ,1881 The Lancet ,1871 Chemical Building Blocks Michael J. Padilla,David V. Frank,John G. Little,Steve Miller,2000 **Young Men's Era** ,1896 **The Lancet London** ,1871

Proceedings International Technical Communications Conference,1971 **Scientific and Technical Aerospace Reports** ,1963 **Government Reports Announcements & Index** ,1991 **The Environment Index** ,1981 *Indian Science Abstracts* ,1972 Meteorological and Geostrophysical Abstracts ,1984 Tech Notes ,1984-08

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