

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"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>	<input type="text"/>



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 On Atmosphere Characteristics Worksheet Answers

Malcolm McDonald, Hugh Wilson



Section On Atmosphere Characteristics Worksheet Answers:

Weather Edward P. Ortleb, Richard Cadice, 1986-03-01 Color overheads included The activities in this book center on the scientific study of the conditions of the atmosphere Basic concepts in weather and climate are presented Each of the twelve teaching units in this book is introduced by a color transparency which emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key General Science 1: Survey of Earth and Sky (Teacher Guide) ,2017-03-01 Four titles from the best selling Wonders of Creation Series are combined for a full year of study The focus of the course delves into oceans astronomy weather and mineral all helping the student form a solid biblical worldview Combined with the teacher guide you will have a detailed calendar for each week of study reproducible worksheets quizzes and tests and answers keys to help grade all assignments General Science I Course Description This is the suggested course sequence that allows two core areas of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials within each semester are independent of one another to allow flexibility Quarter 1 Ocean The oceans may well be Earth's final frontier These dark and sometimes mysterious waters cover 71 percent of the surface area of the globe and have yet to be fully explored Under the waves a watery world of frail splendor foreboding creatures vast mountains and sights beyond imagination awaits Now this powerful resource has been developed for three educational levels Learning about the oceans and their hidden worlds can be exciting and rewarding the abundance and diversity of life the wealth of resources the latest discoveries and the simple mysteries that have intrigued explorers and scientists for centuries A better understanding of our oceans ensures careful stewardship of their grandeur and beauty for future generations and leads to a deeper respect for the delicate balance of life on that God created on planet Earth Quarter 2 Astronomy The universe is an amazing declaration of the glory and power of God Beautiful and breathtaking in its scale the vast expanse of the universe is one that we struggle to study understand or even comprehend in terms of its purpose and size Now take an incredible look at the mysteries and marvels of space in The New Astronomy Book If you watch the stars at night you will see how they change This speaks to the enormity and intricacy of design in the universe While the stars appear timeless they instead reflect an all powerful Creator who speaks of them in the Bible Many ancient pagan cultures taught that the changing stars caused the seasons to change but unlike these pagan teachings the Book of Job gives credit to God for both changing stars and seasons Job 38 31 33 When Job looked at Orion he saw about what we see today even though he may have lived as much as 4 000 years ago Quarter 3 Weather From the practical to the pretty amazing this book gives essential details into understanding what weather is how it works and how other forces that impact on it Learn why storm chasers and hurricane hunters do what they do and how they are helping to solve storm connected mysteries Discover what makes winter storms both beautiful and

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participated in their framework Includes student perspectives An outstanding resource for faculty staff students administrators and leaders in medical education as well as those in other areas of health care who provide education and training An eBook version is included with purchase The eBook allows you to access all of the text figures and references with the ability to search make notes and highlights and have content read aloud N A *Climate Change: Causes: Earth's Atmosphere Gr. 5-8* Erika Gombatz-Gasper,2019-07-01 This is the chapter slice Earth s Atmosphere from the full lesson plan Climate Change Causes Provide students with insight into the science of our atmosphere and the effects of humanity s actions on the Earth System Our resource gives a scientific perspective on climate change that will help students separate fact from fiction Investigate the different layers of the atmosphere Conduct an experiment to see just how an object s color affects how much radiation it absorbs Find out what effect rising temperatures have on Earth s oceans Create your own model of the carbon cycle Explain how the residence time of methane in the atmosphere could help people fight climate change Learn what effects ozone has on human health See firsthand how nitrogen fixing bacteria can replace nitrogen fertilizers Figure out why synthetic gases were banned and how long their effects will stay in the atmosphere Written to Bloom s Taxonomy and STEAM initiatives additional hands on activities crossword word search comprehension quiz and answer key are also included

Educart ICSE Class 10 One-shot Question Bank 2026 Physics (strictly for 2025-26 boards) Sir Tarun Rupani,2025-07-12 Concept clarity exam level practice for ICSE Physics Class 10 This One shot Question Bank by Sir Tarun Rupani is a complete revision and practice tool for ICSE Class 10 Physics created strictly according to the latest 2025 26 CISCE syllabus Ideal for both last minute prep and structured study the book balances theory with practical problem solving Key Features Based on the Latest ICSE 2025 26 Syllabus Full coverage of topics like Force Light Sound Electricity Magnetism and more One shot Format Each chapter begins with crisp summaries important formulas and diagrams for fast conceptual understanding All Question Types Covered Includes MCQs short answers long answers numericals and diagram based questions Chapterwise PYQs Included Real exam questions from past ICSE papers to familiarise students with actual paper trends Solved Answers in ICSE Format Stepwise solutions with proper units working and presentation as per the official marking scheme Numerical Practice Focus Special attention to frequently asked numericals and formula based problems with tricks to avoid calculation errors Why Choose This Book Whether you re revising Physics formulas or tackling complex numericals this One shot by Sir Tarun Rupani provides the exact support needed to boost your confidence and performance An ideal revision companion to master Physics and score high in the 2026 ICSE board exam

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Informatics Education - The Bridge between Using and Understanding Computers Roland Mittermeir,2006-10-28 This book constitutes the refereed proceedings of the International Conference on Informatics in Secondary Schools Evolution and Perspectives ISSEP 2006 held in Vilnius Lithuania in November 2006 The 29 revised full papers presented were carefully reviewed and selected from 204 submissions A broad variety of topics related to teaching informatics in secondary schools is addressed *ICONECT 2019* Murtono,Moh Kanzunnudin,Fina Fakhriyah ,Ratri Rahayu,Robbi Rahim, The complex problems of education and technological development and information demands then takes its main innovations in learning The purpose of this Education is Innovation in order to improve the quality effectiveness efficiency relevance and productivity making the learning process more meaningful and fun for children Innovation can be performed in all subjects learning methods media and evaluation Innovation based learning local culture values will yield the superior character that will benefit children in the face of a globalized world So is innovation technology based learning make learning be fun so that children become active and creative ideas thoughts research related to the innovation of education can be presented in International Conference Education Culture and technology is preferred The theme of this Conference Innovation of Education to Improve Character Value for Childern **Marketing Plans** Malcolm McDonald,Hugh Wilson,2011-03-29 Now in its 7th edition Marketing Plans is a highly renowned international bestseller The book has been thoroughly revised and every chapter has been carefully updated with special attention to the latest developments in marketing To accomplish this Professor Malcolm McDonald has been joined in this edition by Professor Hugh Wilson a leading expert on CRM and multichannel strategy as well as marketing planning Major changes to this edition include new chapters based on the very latest research on Planning for integrated marketing communications and digital marketing Developing multichannel strategy Developing the CRM plan Marketing effectiveness and accountability Marketing Plans is designed as a tool and a user friendly learning resource Every point illustrated by powerful practical examples and made actionable through simple

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Earth & Space Grade 6 Bellaire, Tracy, The activities in this book have two intentions to teach concepts related to earth and space science and to provide students the opportunity to apply necessary skills needed for mastery of science and technology curriculum objectives Throughout the experiments the scientific method is used In each section you will find teacher notes designed to provide guidance with the learning intention the success criteria materials needed a lesson outline as well as provide insight on what results to expect when the experiments are conducted Suggestions for differentiation are also included so that all students can be successful in the learning environment Topics covered include Understanding Earth Space Systems and Interactions 96 Pages *Antarctica: Regions Gr. 5-8* Irene Evagelelis and David McAleese, 2016-07-01 This is the chapter slice Regions Gr 5 8 from the full lesson plan Antarctica Go on an exhibition to the South Pole as you explore the harsh climate of Antarctica Study the ice atmosphere magnetic field and greenhouse effect over this vast continent Draw the locations of research stations inhabiting Antarctica Understand how Antarctica s temperatures can result in surface ice two miles thick Become a scientist and research the atmosphere above Antarctica Find ways in which scientists move around Antarctica without roads or highways Compare Antarctica s active volcano Mt Erebus with others found around the world like Mt St Helens and Mt Vesuvius View the continent as seen from Earth with a globe view map Aligned to your State Standards and the Five Themes of Geography additional maps crossword word search comprehension quiz and answer key are also included *Antarctica Gr. 5-8* Irene Evagelelis, David McAleese, 2007-03-01 Go on an exhibition to the South Pole as you explore the harsh climate of Antarctica Study the ice atmosphere magnetic field and

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