

## Honors Earth Science Study Guide

Answer the following questions on a separate sheet of paper.

1. Define these parts of the water cycle.
  - Accumulation – (reservoirs) places where water builds up
  - Condensation – gaseous water forms liquid water after cooling
  - Evaporation – liquid water forms gaseous water after heating
  - Precipitation – gaseous water condenses in the atmosphere, causing rain, hail, snow, sleet, etc.
  - Runoff – precipitation over land collects and flows to lower, larger bodies of water
  - Transpiration – plants lose water from their leaves through small pore-like openings
  - Groundwater – water stored in the ground in aquifers, reservoirs, caverns, etc.
2. What causes the temperature to decrease with altitude in the troposphere?  
The sun heats the ground and the water on Earth's surface. As you move farther from these heat sources, the air becomes colder.
3. The amount of water in Earth's atmosphere: **changes/does not change. (Circle One)**  
Does not
4. What causes the temperature to rise in the stratosphere?  
The ozonosphere contains ozone, a molecule that absorbs harmful light from the sun. As it absorbs this light, the light energy is transformed into heat.
5. What is the composition of the atmosphere? (In terms of elements)  
Mostly nitrogen (78%), with smaller parts oxygen (21%) and other gases (<1%)
6. In your own words, describe how air pressure decreases as you climb a mountain. Use the word density.  
Air pressure decreases as you move up a mountain because the molecules have weight. Most of the molecules are drawn toward the lowest layer of Earth, so fewer and fewer escape to outer layers. Since the number of these molecules is so small, and the amount of space is the same, the density is low.
7. During thermal expansion, density decreases. Explain why using the following words: mass, volume, kinetic energy.  
During thermal expansion, density decreases because the heat absorbed by molecules is kinetic energy (motion of molecules – we define temperature as the speed of molecules, hence “kinetic”). As the substance expands, mass doesn't change – only its volume increases. We are not adding mass to the sample. Since density is mass/volume, density goes down as volume goes up.
8. How is temperature different from thermal energy?  
Temperature is a measure of the speed of molecules, and has no relation to the number of molecules in a sample. But, total thermal energy combines all kinetic energy of all molecules in a sample, meaning it is heavily reliant on the number of molecules.
9. Why does warm air rise?  
Warm air rises because the gases experience thermal expansion. As they expand, their density decreases. Less dense materials float on top of other ones, so the warm air will rise through cooler, denser air.
10. Wind is the movement of air caused by a difference in \_\_\_\_\_  
\_\_\_\_\_.  
Air pressure
11. Air pressure always (naturally) flows from areas of \_\_\_\_\_ pressure to \_\_\_\_\_ pressure.  
High, low

# Honors Earth Science Study Guide Answers

**College Entrance Examination  
Board, The College Board**



## Honors Earth Science Study Guide Answers:

*Newly Hired Teachers of Science* Julie A. Luft, Shannon L. Dubois, 2015-12-09 Supporting newly hired science teachers has taken on an increased importance in our schools This book shares the most current information about the status of newly hired science teachers different ways in which to support newly hired science teachers and different research approaches that can provide new information about this group of teachers Chapters in the book are written by those who study the status of beginning science teachers mentor new teachers develop induction programs and research the development of new science teachers *Newly Hired Teachers of Science* is for administrators who have new science teachers in their schools and districts professionals who create science teacher induction programs mentors who work closely with new science teachers educational researchers interested in studying new science teachers and even new science teachers This is a comprehensive discussion about new science teachers that will be a guiding document for years to come Concepts of Earth Science & Chemistry Parent Lesson Plan John Hudson Tiner, 2013-08-26 *Concepts of Earth and Chemistry Course Description* This is the suggested course sequence that allows one core area of science to be studied per semester You can change the sequence of the semesters per the needs or interests of your student materials for each semester are independent of one another to allow flexibility Semester 1 Earth Blending a creationism perspective of history with definitions of terms and identification of famous explorers scientists etc this book gives students an excellent initial knowledge of people and places encouraging them to continue their studies in depth Semester 2 Chemistry Chemistry is an amazing branch of science that affects us every day yet few people realize it or even give it much thought Without chemistry there would be nothing made of plastic there would be no rubber tires no tin cans no televisions no microwave ovens or something as simple as wax paper This book presents an exciting and intriguing tour through the realm of chemistry as each chapter unfolds with facts and stories about the discoveries of discoverers Find out why pure gold is not used for jewelry or coins Join Humphry Davy as he made many chemical discoveries and learn how they shortened his life See how people in the 1870s could jump over the top of the Washington Monument *Exploring the World of Chemistry* brings science to life and is a wonderful learning tool with many illustrations and biographical information *CliffsTestPrep Regents Earth Science: The Physical Setting Workbook* American BookWorks Corporation, 2008-06-02 Designed with New York State high school students in mind *CliffsTestPrep* is the only hands on workbook that lets you study review and answer practice Regents exam questions on the topics you are learning as you go Then you can use it again as a refresher to prepare for the Regents exam by taking a full length practicetest Concise answer explanations immediately follow each question so everything you need is right there at your fingertips You will get comfortable with the structure of the actual exam while also pinpointing areas where you need further review About the contents Inside this workbook you will find sequential topic specific test questions with fully explained answers for each of the following sections Observation and Measurement The Dynamic Crust Minerals and Rocks Geologic

History Surface Processes and Landscapes Meteorology The Water Cycle and Climates Astronomy Measuring the Earth A full length practice test at the end of the book is made up of questions culled from multiple past Regents exams Use it to identify your weaknesses and then go back to those sections for more study It s that easy The only review as you go workbook for the New York State Regents exam *Resources in Education* ,1994 **Discourse Analytic Perspectives on STEM**

**Education** Juliet Langman,Holly Hansen-Thomas,2017-05-23 This volume explores the nature of discourse in secondary and upper elementary mathematics and science classrooms Chapters examine conditions that support or hinder teachers and students in particular language learners in employing language as a tool for learning The volume provides rich oral and written language examples from a range of classroom contexts to illustrate how linguistic practices affect students appropriation and display of disciplinary specific knowledge Chapters further explore linguistic practices through with the support of discourse analytic models that foreground the authentic classroom data with the aim of understanding the dynamics of the classroom The authors investigate the intersection between discourse and learning from a range of perspectives including an examination of key concepts such as intertextuality interaction mediation scaffolding appropriation and adaptations This volume offers concrete suggestions on how teachers might benefit from a discourse approach to teaching in the areas of mathematics and science **Bulletin** Oberlin College,1915 **Science & Stories** Hilarie N. Staton,Tara McCarthy,1994 Here s a surefire way to spark interest in both reading and science at the upper elementary level The authors provide reading strategies and activities for 24 popular children s books you can use to integrate reading and science teaching Activities covering oral language writing and cooperative learning apply the science concepts Catalogue of Oberlin College for the Year ... Oberlin College,1916 *K-12 Math and Science Education* United States. Congress. House. Committee on Science,2000 Doklady ,1978 Translations of selections from Akademii a nauk SSSR Doklady

**Science and Stories** Hilarie Staton,Tara McCarthy,1994 Bring science to life using 24 popular children s books Cross curricular activities provide theme based units that engage students in a broad scope of science discovery Includes activities student worksheets extensions and correlation charts *Educating Gifted Students in Middle School* Susan Rakow,2021-09-30 *Educating Gifted Students in Middle School A Practical Guide* 3rd ed helps educators with the challenging task of understanding and meeting the needs of gifted students in middle school This revised and updated third edition Provides a rationale and framework that middle schools can use to fill the service gap for gifted and advanced learners Addresses the needs of learners from diverse backgrounds Shows how to implement effective program models Identifies best practices for the classroom Shares research based curriculum models Topics addressed include school organization instructional strategies in the basic subject areas cocurricular and summer programs the missing link of executive function skills and counseling at risk gifted learners *Educating Gifted Students in Middle School* focuses on creative practical and realistic school solutions that create a vital and responsive community for all students American Universities and

Colleges ,2014-10-08 No detailed description available for American Universities and Colleges      **Book of Majors 2013**

College Entrance Examination Board,The College Board,2012-07-03 An in depth look at the top 200 college majors and a guide to 3600 colleges offering any or all of these programs      Book of Majors 2014 College Entrance Examination

Board,The College Board,2013-07-02 The only book that describes majors in depth and lists the colleges that offer them

*Catalogue of the Trustees, Officers, and Students of the Oberlin Collegiate Institute* Oberlin College,1911      **World History** Larry S. Krieger,Kenneth Neill,Steven L. Jantzen,1994-02      *The Next Step* Michael H. Burnam,2017-09-29 It s

been five years since Mickey passed the Europeans test saving the Europeans and planet Earth Pam and David are living on Europa in a wondrous habitat where anything seems possible and have twins with unusual abilities Earth is transforming into a Utopian paradise thanks to the Sphere an alien hard drive filled with advanced technology gifted to Earth by the Europeans But Mickey who chose to remain on Earth suspects the Europeans of having a secret more sinister agenda When he severs his connection to the Sphere and begins to investigate Mickey is captured by the Sphere Cult and put on trial for his life The second book in the thrilling YA sci fi series from Michael H Burnam The Next Step asks what happens when Evolution progresses to immortality      *In a Mirror Dimly* Jack Walker,2019-09-17 This is book 2 of the incredible real life journey of a

boy s struggle to achieve manhood The journey continues in Colorado and takes him to the wilds of the Montana Rocky Mountains The reader will meet the mountain man mentor who taught him the ways of nature Readers will visit an enchanted mountain village where the mayor ran the only gas station and the social hub of the village was a small caf run by a jolly blind man and will meet a young village high school girl as fresh as morning dew and a shepherd who was a college professor The call to war first took him from the total freedom of the wild to the regimented discipline of Navy boot camp on the shore of Lake Michigan and on to the warm palm tree climes of Corpus Christi Texas on the Gulf of Mexico In New Orleans he performed onstage at Pat O Brien s and fell in love with a stripper The reader will meet the crew and experience shipboard life on the flight deck of an aircraft carrier Following his less than illustrious naval tour a charge of AWOL two summary courts martial he reentered civilian life to marry have children and be admitted to college on a probationary basis He was invited to President Kennedy s inaugural ball and he received a college degree Along with his three children and pregnant wife they trekked to a job offer in Chicago in an old Ford and a U Haul trailer      **Catalog of Copyright Entries** Library of Congress. Copyright Office,1960-07

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