

## Earth & Environmental Science Final Exam Study Guide

### Astronomy – 1.1

- 1.1.1 What does the geocentric model of the solar system look like?  
**EARTH AT THE CENTER OF THE SOLAR SYSTEM**
- 1.1.1 What is the theory that the Solar System developed from a cloud of dust and gas?  
**NEBULAR HYPOTHESIS**
- 1.1.1 At what point is Earth closest to the sun?  
**PERIHELION**
- 1.1.1 What are the Jovian planets vs terrestrial?  
**TERRESTRIAL – CLOSEST TO THE SUN, example: MERCURY, VENUS, EARTH, MARS  
JOVIAN – FURTHEST FROM THE SUN, example: JUPITER, SATURN, URANUS, NEPTUNE**
- 1.1.2 What is responsible for the seasonal changes on earth?  
**SEASONS RESULT FROM THE TILT OF THE EARTH'S ROTATIONAL AXIS RELATIVE TO THE PLANE OF ORBIT AND THE YEARLY ORBIT OF THE EARTH AROUND THE SUN**
- 1.1.2 What causes the earth to experience tides?  
**THE COMBINED EFFECTS OF GRAVITATIONAL FORCES EXERTED BY THE MOON, SUN, AND THE ROTATION OF THE EARTH**
- 1.1.2 What causes earth to experience days and years?  
**DAYS ARE DUE TO THE SPIN OF THE EARTH ON IT'S AXIS (ROTATION) AND YEARS ARE DUE TO THE EARTH MOVING AROUND THE SUN IN AN ELLIPTICAL ORBIT (REVOLUTION)**
- 1.1.2 Why is the circumference of the earth larger at the equator than the poles?  
**IT IS A RESULT OF GRAVITY AND ITS ROTATION**
- 1.1.3 What is fusion?  
**IT'S THE PROCESSTHAT POWERS THE SUN AND THE STARS. IT'S THE REACTION OF TWO ATOMS OF HYDROGEN COMBINE TOGETHER , OR FUSE, TO FORM AN ATOM OF HELIUM. IN THE PROCESS SOME OF THE MASS OF HYDROGEN IS CONVERTED TO ENERGY.**
- 1.1.3 What is fission?  
**Fission is a nuclear process in which a heavy nucleus splits into two smaller nuclei. An example of a fission reaction that was used in the first atomic bomb and is still used in nuclear reactors**
- 1.1.3 What process produces radiant energy in stars?  
**FUSION**
- 1.1.4 What causes the differential heating of Earth's surface (differences in land and water)?  
**WATER HEATS UP AND COOLS MORE SLOWLY THEN LAND. 2/3'S OF THE EARTH'S SURFACE IS COVERED BY WATER. THIS CAUSES THE NOTHERN AND SOUTHERN HEMISPHERES TO HAVE DIFFERENT AVERAGE TEMPS.**

### Lithosphere - Plate Tectonics 2.1

- 2.1.1 How did Wegener's Continental Drift Hypothesis get elevated to today's Plate Tectonics Theory?  
**THE DISCOVERIES OF SEA FLOOR SPREADING AND PLATE BOUNDRIES BY STUDYING EARTHQUAKE DATA**
- 2.1.1 What is the name for the supercontinent in the continental drift hypothesis?  
**PANGAEA or PANGEA**
- 2.1.1 Why do we have mountains on Earth?  
**IT OCCURS AT THE CONVERGENT BOUNDRY OF 2 CONTENTIAL PLATES**
- 2.1.1 What is the significance of the asthenosphere having a putty consistency?  
**IT ALLOWS FOR THE MOVEMENT OF THE PLATES, BY CONVECTION**

# Environmental Science Spring Final Study Guide

**Robert R. Redfield**



## **Environmental Science Spring Final Study Guide:**

*Resources in Education*, 1980     Research in Education, 1974     *Environmental Science* Scott Brennan, 2004-03 This comprehensive study guide features chapter outlines key terms practice exercises and answers and solutions to selected end of chapter questions from the text Additional suggestions for approaching environmental issues encourage students to think critically     *Environmental Science* William P. Cunningham, Mary Ann Cunningham, Barbara Woodworth Saigo, 2003-03 This book is intended for use in a one or two semester course in environmental science human ecology or environmental studies at the college or advanced placement high school level Because most students who will use this book are freshman or sophomore nonscience majors the authors have tried to make the text readable and accessible without technical jargon or a presumption of prior science background At the same time enough data and depth are presented to make this book suitable for many upper division classes and a valuable resource for students who will keep it in their personal libraries after their formal studies are completed The goal of this book is to provide an up to date introductory view of essential themes in environmental science along with emphasis on details and case studies that will help students process and retain the general principles     Research in Education, 1971     The A. P. Environmental Science Michael Lopatka, 2002-07     *An Introductory Guide to EC Competition Law and Practice* Valentine Korah, 1994     *Strive for 5: Preparing for the AP Environmental Science Exam* Andrew Friedland, Rick Relyea, 2015-08-15 This text is designed to help students evaluate their understanding of the material covered in the main textbook *Environmental Science for AP* by the same authors It reinforces key concepts from the text and prepares students for success on the AP Environmental Science Exam This title includes a study guide aligned with Friedland and Relyea *Environmental Science for the AP course Second Edition* and essential tips and test preparation     **Environment Abstracts**, 1974     *Sustainability Engineering* Jeffery Perl, 2016-07-07 This book explores sustainability engineering through the lens of the manufacturing and chemical process industries to elucidate the safe and economic implementation of process designs used to transform raw materials into useful finished products The author applies the tenets of sustainability science to develop an engineering methodology that supports the perpetual availability of raw materials through recycling reuse repurposing incorporates inexhaustible supplies such as solar energy and municipal waste and encompasses the husbandry of these resources in a manner that minimizes negative environmental impacts Anyone involved in the design or manufacture of chemicals or the upgrade of existing manufacturing processes will benefit from this book s suggestions for identifying improvement options while adding the pivotal aspect of sustainability to the usual cost and safety equation optimization elements     **Sustainability Engineering for Enhanced Process Design and Manufacturing Profitability** Jeffery P. Perl, 2024-03-11 Now in an expanded and revised second edition this book explores sustainability engineering through the lens of the manufacturing and chemical process industries to explain the safe and economical implementation of process designs to transform raw materials into valuable finished products The author

applies the principles of sustainability science to engineering methodology for residential commercial and industrial applications that support the perpetual availability of raw materials through recycling reuse and repurposing to incorporate inexhaustible supplies and encompasses the management and conservation of these resources in a manner that minimizes negative environmental impacts New sections include Coverage of electric power opportunities and challenges solar wind and cogeneration Efficiency improvement as an energy supply extender Recycling as a material extender The book examines relevant energy policies driving and affecting commercial industrial and residential energy utilization and includes new industrial case studies Anyone involved in the design or manufacture of chemicals or the upgrade of existing manufacturing processes will benefit from this book s suggestions for identifying improvement options while adding the pivotal aspect of sustainability to the usual cost and safety equation optimization elements

**Cornell University Courses of Study** Cornell University,2007 *Government Reports Announcements* ,1971 *The Environment Index* ,1974 *Environmental Science* Amos Turk,1978 New edition of a college textbook introduced in 1974 **The Nature-study Review** ,1905 **School Science** ,1904 *School Science and Mathematics* ,1905 **Announcement, College of Arts and Sciences** University of Colorado (Boulder campus). School of Arts and Sciences,1926 *Transactions of the Illinois State Academy of Science* Illinois State Academy of Science,1912 Vol 1 covers the organizational meeting Springfield Dec 7 1907 and the first regular meeting Decatur Feb 22 1908

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