

## Earth & Environmental Science Final Exam Study Guide

### Astronomy – 1.1

1. 1.1.1 What does the geocentric model of the solar system look like?  
**EARTH AT THE CENTER OF THE SOLAR SYSTEM**
2. 1.1.1 What is the theory that the Solar System developed from a cloud of dust and gas?  
**NEBULAR HYPOTHESIS**
3. 1.1.1 At what point is Earth closest to the sun?  
**PERIHELION**
4. 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**
5. 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**
6. 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**
7. 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 ELIPTICAL ORBIT (REVOLUTION)**
8. 1.1.2 Why is the circumference of the earth larger at the equator then the poles?  
**IT IS A RESULT OF GRAVITY AND ITS ROTATION**
9. 1.1.3 What is fusion?  
**IT'S THE PROCESS THAT 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.**
10. 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**
11. 1.1.3 What process produces radiant energy in stars?  
**FUSION**
12. 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 NORTHERN AND SOUTHERN HEMISPHERES TO HAVE DIFFERENT AVERAGE TEMPS.**

### Lithosphere - Plate Tectonics 2.1

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. 2.1.1 What is the name for the supercontinent in the continental drift hypothesis?  
**PANGAEA or PANGEA**
3. 2.1.1 Why do we have mountains on Earth?  
**IT OCCURS AT THE CONVERGENT BOUNDARY OF 2 CONTINENTAL PLATES**
4. 2.1.1 What is the significance of the asthenosphere having a putty consistency?  
**IT ALLOWS FOR THE MOVEMENT OF THE PLATES, BY CONVECTION**

# Cms Study Guide Earth Environmental Final Review

**Jeanette L. Drake, Yekaterina Y.  
Kontar, Gwynne S. Rife**

## Cms Study Guide Earth Environmental Final Review:

Energy Research Abstracts ,1993    Resources in Education ,1984    Monthly Weather Review ,1918    **Australian National Bibliography** ,1978    **New Trends in Earth-Science Outreach and Engagement** Jeanette L.

Drake,Yekaterina Y. Kontar,Gwynne S. Rife,2013-12-11 Perhaps just as perplexing as the biggest issues at the core of Earth science is the nature of communicating about nature itself New Trends in Earth Science Outreach and Engagement The Nature of Communication examines the processes of communication necessary in bridging the chasm between climate change and natural hazard knowledge and public opinion and policy At this junction of science and society 17 chapters take a proactive and prescriptive approach to communicating with the public the media and policy makers about the importance of Earth science in everyday life Book chapters come from some 40 authors who are geophysical scientists social scientists educators scholars and professionals in the field Bringing diverse perspectives these authors hail from universities and research institutes government agencies non profit associations and corporations They represent multiple disciplines including geosciences education climate science education environmental communication and public policy They come from across the United States and around the world Arranged into five sections the book looks at geosciences communication in terms of 1 Education 2 Risk management 3 Public discourse 4 Engaging the public 5 New media From case studies and best practices to field work and innovations experts deliver pragmatic solutions and delve into significant theories including diffusion argumentation and constructivism to name a few Intended for environmental professionals researchers and educators in the geophysical and social sciences the book emphasizes communication principles and practices within an up to the minute context of new environmental issues new technologies and a new focus on resiliency

Government Reports Announcements & Index ,1996

**Bibliography of Agriculture with Subject Index** ,1993-07

**Readers' Guide to**

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An Introductory Guide to EC Competition Law and Practice Valentine Korah,1994

NASA SP. ,1990    **General Catalogue of Printed Books** British Museum. Department of Printed Books,1971

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