

## 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?  
**PERHELION**
4. 1.1.1 What are the inner planets vs terrestrials?  
**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 ITS AXIS ROTATIONS 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 than the poles?  
**IT IS A RESULT OF GRAVITY AND ITS ROTATION**
9. 1.1.2 What is fusion?  
**IT IS THE PROCESS THAT POWERS THE SUN AND THE STARS. IT'S THE REACTION OF TWO ATOMS OF HYDROGEN COMING TOGETHER – OR FUSE, TO FORM AN ATOM OF HELIUM. IN THE PROCESS SOME OF THE MASS OF HYDROGEN IS CONVERTED TO ENERGY.**
10. 1.1.2 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. 1.1.2 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. 70% 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 BOUNDARIES BY STUDYING SATISFACTION 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 partly convective?  
**IT ALLOWS FOR THE MOVEMENT OF THE PLATES, BY CONVECTION**

# Grade 12earth Space Science Final Exam Study Guide

**Lingjun Ying**



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