

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

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