

ES104 Quiz 1 Study Guide – Summer 2024

Quiz 2 (20 Pts) Monday July 1, 2024

RECOMMENDED STUDY TECHNIQUES

- 1) review the "How to Study Physical Science" guide available on the web site.
- 2) use the concepts below as a guide to help you focus on your notes
- 3) memorize terms and concepts (make flash cards, rewrite definitions 100 times, etc.)
- 4) go back over the labs and make sure you can do the tricks / skills
- 5) review some of the important figures in your lab manual and text
- 6) Review the Canvas practice quizzes and answers; test yourself with questions and answers.
- 7) be able to link the terms to concepts, and the concepts to Earth processes
- 8) Go to the class website and view all "Slide Shows/Figures / Overheads to Accompany Class Notes"

Solar System / Stars / Universe Figures

Plate Tectonics

I would spend a MINIMUM of 2 hours studying for this quiz... if I wanted to do well! Study now!

Week 1 – Introduction

<http://www.wou.edu/las/physci/taylor/gs104/intro00.pdf>

Earth System Science
system

~~astronomy~~

~~geology~~

~~meteorology~~

~~oceanography~~

geosphere

atmosphere

hydrosphere

biosphere

inner core

outer core

mantle

crust

oceanic crust

continental crust

asthenosphere

nitrogen-oxygen-carbon dioxide

photosynthesis

~~earth-rotational-axis~~

scientific method

observation

hypothesis

hypoth. testing

model

theory

law

mass

matter

energy

thermal energy

mechanical energy

law of energy conservation

system

model

solar system

earth system

geothermal energy

examples of geothermal

Earth Controls:

solar energy

geothermal energy

gravity

age of earth = 4.5 b.y.

big bang

"gas giants"

planets: m,v,e,m,j,s,u,n,p

"sun" / star

planet vs. moon

star vs. planet

~~speed of light~~

~~visible light~~

~~light year~~

know your planet

characteristics

~~gravity~~

Skills and Concepts

Can you sketch the interior of the Earth?

Can you complete basic unit calculations from English to Metric and vice versa?

Can you calculate density?

If given conversion factors, can you work a unit conversion problem?

What is the scientific method?
Can you list the elements of the process?

What is the difference between

Week 1 – Solar System

<http://www.wou.edu/las/physci/taylor/gs104/univnew.pdf>

Earth system

rotational period

rotational direction

orbital period

lunar cycle

lunar system

lunar cycle

full moon

new moon

lunar orbital direction

terrestrial planets

jovian planets

a star and planet? A planet and moon?

Explain why we look back in time when we look into space?

Can you list 3 essential characteristics of each of the planets? Can you name the planets in order from the sun?

Can you draw and label a diagram of the lunar cycle
Can you draw and label a diagram of the seasonal climate cycles of the Earth? Why do we have seasons?