
Mastering Astronomy Final Study Guide

Chapters 1-18

Earth is made mostly of metals and rocks. Where did the material come from? Answer- It was made by nuclear fission of uranium and other radioactive materials

What is nuclear fusion? Answer- the process of combining lightweight nuclei to make heavier nuclei

Which of the following statements does not use the term light-year in an appropriate way? Answer- It will take me light-years to complete this homework assignment

Suppose we look at a photograph of many galaxies. Assuming that all galaxies formed at the same time after the Big Bang, which galaxy appears to us as the youngest? Answer- The galaxy that is furthest from us.

What do we mean when we talk about the Milky Way in our sky? Answer- The patchy band of light that outline the plane of the Milky Way as seen from Earth.

Which of the following best describes the Milky Way Galaxy? Answer- a spiral galaxy with a disk about 100,000 light-years in diameter and containing between 100 billion and 1 trillion stars.

Which of the following statements about the Milky Way Galaxy is not true? Answer- Our solar system is located very close to the center of the Milky Way Galaxy

What is the sun made of? Answer- hydrogen and helium

Which of the following is smallest? Answer- size of a typical planet

Which of the following is largest? Answer- size of a typical galaxy

Which of the following is not a general difference between a planet and a star? Answer- All planets are made of rock and all stars are made of gas

Our solar system consists of _____. Answer- the Sun and all the objects that orbit it

A typical galaxy is a _____. Answer- collection of a few hundred million to a trillion or more stars, bound together by gravity

Which of the following best describes what we mean by the universe? Answer- The sum total of all matter and energy.

Astronomy Final Study Guide Answers 2013

L Darling-Hammond



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