

## Ch. 10 Study Guide

**Directions:** You must complete this study guide in its entirety and turn it in through Archie by the end of your class period on March 17<sup>th</sup>. All answers *must be handwritten* and should have as much detail as possible. This covers all questions that could be asked, so you have every opportunity to do well if you actually try.

What are the different types of electromagnetic waves? Order them from lowest energy to highest energy. How are frequency, wavelength, and energy of radiation all related? (Ch 10 Lesson 1)

What are the different types of telescopes? What type of radiation do they detect? What locations are best for building telescopes with reduced interference and why? (Ch 10 Lesson 1)

How fast do the different electromagnetic waves travel? How long does it take for this light to travel across our solar system and from farther stars? (Ch 10 Lesson 1)

List the famous firsts in space exploration we discussed, including the year that each accomplishment was achieved. (Ch 10 Lesson 2)

What are the different types of space probes and how do they differ? How does the function of probes differ from the function of a rocket? (Ch 10 Lesson 2)

What is the Kennedy Space Center and what benefits has it had for Florida? (Ch 10 Lesson 2)

What do the terms solar and lunar mean? (Ch 10 Lesson 3)

What are the main requirements of all Earth based lifeforms? (Ch 10 Lesson 3)

List the different space probes we've discussed with information on where they explored and what important information they gathered. Try to group them by the location they explored (Ch 10 Lesson 2/3)