

Name: \_\_\_\_\_

Period: \_\_\_\_\_

## The Sun-Earth-Moon System

### SECTION 27.1 Tools of Astronomy

Use each of the terms below just once to complete the passage.

larger                      electromagnetic radiation                      visible light                      wavelength  
reflecting telescope                      frequency                      telescopes                      refracting telescope  
interferometry                      electromagnetic spectrum

(1) \_\_\_\_\_ consists of electric and magnetic disturbances, or waves, that travel through space. Human eyes see one form of this energy, called (2) \_\_\_\_\_. All forms of electromagnetic radiation, including X rays and radio waves, make up the (3) \_\_\_\_\_. Each type of radiation can be classified in two ways. (4) \_\_\_\_\_ measures the distance between the peaks on a wave and (5) \_\_\_\_\_ is the number of waves that occurs each second. Scientists study radiation with (6) \_\_\_\_\_, which collect and focus light. The (7) \_\_\_\_\_ the opening that gathers light in a telescope, the more light that can be collected. A(n) (8) \_\_\_\_\_ uses lenses to bring light to a focus, and a(n) (9) \_\_\_\_\_ uses mirrors to do the same thing. The process of linking several telescopes together so that they can act as one is called (10) \_\_\_\_\_.

For each item in Column A, write the letter of the matching item in Column B.

#### Column A

#### Column B

- \_\_\_\_\_ 11. The first multi-country space habitat for long-term human occupation
- \_\_\_\_\_ 12. Probe to Pluto and beyond
- \_\_\_\_\_ 13. Telescope launched in 1990 to carry out observations in visible light, infrared, and ultraviolet wavelengths
- \_\_\_\_\_ 14. Craft in which astronauts study weightlessness, growth of crystals, and other phenomena
- \_\_\_\_\_ 15. Telescope used to observe X rays blocked by Earth's atmosphere

- a. *Hubble Space Telescope*
- b. *New Horizons*
- c. *Chandra X-Ray Observatory*
- d. *Space Shuttle*
- e. *International Space Station*

# Chapter 27 The Sun Earth Moon System Answers

**Paul G. Hewitt, John Suchocki, Leslie A.  
Hewitt**



## Chapter 27 The Sun Earth Moon System Answers:

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Watkins,Watkins,1989

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