

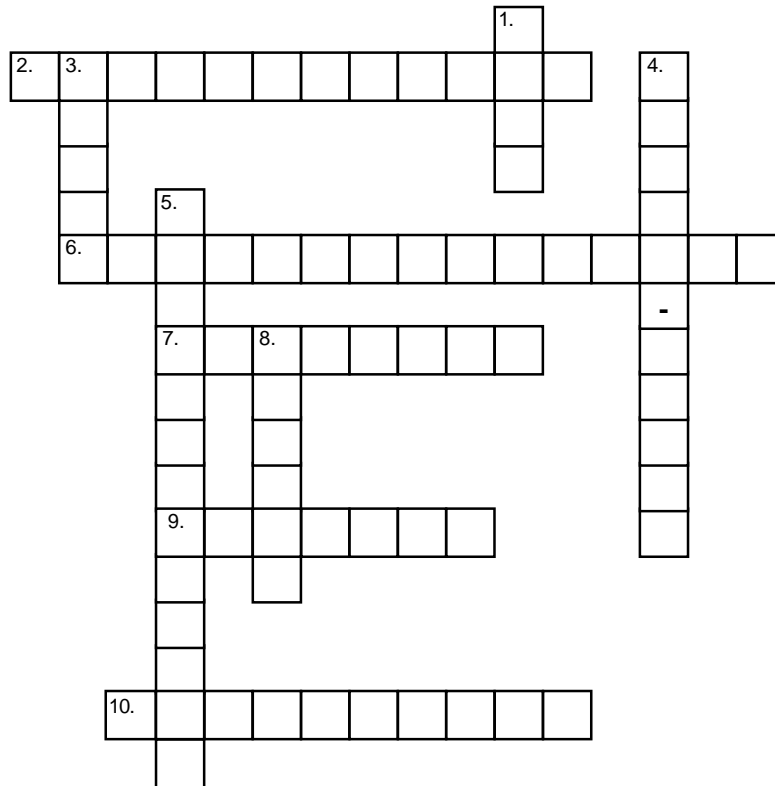
# CHAPTER REVIEW

# Chapter 25

## Physics of Space Flight

### I. Vocabulary Review

*Solve the following crossword by using the clues provided.*



**Across**

- 2. Distances to stars are measured in \_\_\_\_\_ units.
- 6. The collection of wavelengths is the \_\_\_\_\_ spectrum.
- 7. Ratio of impulse to weight is the \_\_\_\_\_ impulse.
- 9. the product of force and time
- 10. The fuel in a rocket is the \_\_\_\_\_.

**Down**

- 1. Radio waves are the longest type of electromagnetic \_\_\_\_\_.
- 3. Rockets are launched using more than one \_\_\_\_\_.
- 4. Distances to stars are measured in \_\_\_\_\_ - \_\_\_\_\_.
- 5. Satellites that stay over one location on Earth are placed in \_\_\_\_\_ orbit.
- 8. Speed needed to leave Earth's orbit is \_\_\_\_\_ velocity.

## Chapter Review 25 (continued)

### II. Concept Review

*If the underscored word or phrase makes the sentence true, write "TRUE" in the space provided. If the underscored word or phrase makes the sentence false, write the correct term or phrase in the space provided.*

- \_\_\_\_\_ 11. Landsat is used to map the mineral resources of Mars.
- \_\_\_\_\_ 12. It is easier to predict the movement of hurricanes because of the use of global positioning satellites.
- \_\_\_\_\_ 13. A communications satellite receives and strengthens electromagnetic waves before sending them to a receiving station.
- \_\_\_\_\_ 14. Astronomers study comets for the birth of stars.
- \_\_\_\_\_ 15. Robert Goddard receives credit for the modern rocket even though he died before they were used in space flight.
- \_\_\_\_\_ 16. Shortwaves are used for long-distance communication.

### III. Skills/Process Review

*Answer the following questions in phrases or the space provided.*

17. Why is the Saturn V rocket made of several stages instead of just being one large rocket?

\_\_\_\_\_

\_\_\_\_\_

18. What evidence of life on Earth is detectable from space? \_\_\_\_\_

\_\_\_\_\_

19. What is the velocity of a model rocket at takeoff if the mass of the rocket is 0.4 kg, the mass of the propellant is 0.1 kg, and the velocity of the exhaust gas is 200 m/s?

\_\_\_\_\_

### IV. Feature Review

20. **Science and Society: It's Fiction, but Is It Science?** Why do some people believe that science fiction should be scientifically accurate? \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_