

Name \_\_\_\_\_ Date \_\_\_\_\_

**Instructions:** Read each question carefully and choose the best answer.

1. What is the author's purpose?
  - (A) to entertain
  - (B) to persuade
  - (C) to explain a process
  - (D) to inform
  
2. What is the most important difference between most telescopes and the Hubble Space Telescope?
  - (A) The Hubble is named after someone.
  - (B) The Hubble is outside of Earth's atmosphere.
  - (C) There have been no mechanical problems with the Hubble.
  - (D) The Hubble cost much less money to build than most telescopes.
  
3. Scientists who study space and stars are \_\_\_\_\_.
  - (A) archeologists
  - (B) anthropologists
  - (C) astronomers
  - (D) astrologers
  
4. Stars are formed in \_\_\_\_\_.
  - (A) clouds of spinning gas
  - (B) the cores of planets
  - (C) our atmosphere
  - (D) black holes
  
5. Which stars in the Omega Centauri globular cluster are the oldest?
  - (A) yellow stars
  - (B) red stars
  - (C) blue stars
  - (D) green stars
  
6. Read this sentence: *Omega Centauri is about 15,000 light years away from Earth.* What is a **light year**?
  - (A) A light year is the amount of light produced in a year.
  - (B) A light year is a measure of the distance light travels in one year.
  - (C) A light year is a year with very little star activity.
  - (D) A light year measures the span of a star.

*Quick Check continued on following page*

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7. Why are astronomers fascinated by Stephan's Quintet?
  - Ⓐ The five galaxies seem to be fighting.
  - Ⓑ Stephan's Quintet shows evidence of bow shocks.
  - Ⓒ The galaxies in Stephan's Quintet are not shaped normally.
  - Ⓓ All of the above
8. Why are scientists interested in the Butterfly Nebula?
  - Ⓐ The Butterfly Nebula is heading toward Earth.
  - Ⓑ The Butterfly Nebula shows how some suns die.
  - Ⓒ The gases of the Butterfly Nebula might be useful.
  - Ⓓ The Butterfly Nebula poses dangers for spaceships.
9. The Hubble's problem when it first went into space \_\_\_\_\_.
  - Ⓐ was a defect in the cargo bay
  - Ⓑ was a piece of paper stuck in the lens
  - Ⓒ was impossible for scientists to figure out
  - Ⓓ was an imperfection in the main mirror
10. The biggest improvement in the James Webb Space Telescope will be \_\_\_\_\_.
  - Ⓐ its ability to travel even faster than the Hubble
  - Ⓑ that it will contain a tennis court
  - Ⓒ that it will be designed to shield itself from the Sun's heat
  - Ⓓ none of the above
11. **Extended Response:** Do you think it is important for our government to spend billions of dollars on space telescopes? Why?
12. **Extended Response:** How does the Hubble's ability to "see" several different wavelengths of light make it better?

## Quick Check Answer Sheet

## Hubble: An Out-of-This-World Telescope

*Main Comprehension Skill: Main Idea and Details*

1. Ⓓ *Author's Purpose*
2. Ⓑ *Compare and Contrast*
3. Ⓒ *Vocabulary*
4. Ⓐ *Main Idea and Details*
5. Ⓒ *Main Idea and Details*
6. Ⓑ *Vocabulary*
7. Ⓓ *Main Idea and Details*
8. Ⓑ *Main Idea and Details*
9. Ⓓ *Main Idea and Details*
10. Ⓒ *Main Idea and Details*
11. Answers will vary but must be supported by sound reasoning.
12. Answers should address the Hubble's ability to give a more complete picture of objects in space.