



# Stars and Brightness

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

Date: \_\_\_\_\_

Grade: Grade 5

## Part A: Multiple Choice

Circle the best answer for each question.

1. According to the passage, why did ancient people first track the positions of stars?

- A) To predict seasons, plant crops, and navigate at sea
- B) To measure the exact mass of distant galaxies
- C) To send radio signals to nearby planets in orbit
- D) To calculate the energy released by supernova explosions

2. What new tool did Galileo use in the early 1600s to study the night sky?

- A) A modern radio dish
- B) An early refracting telescope
- C) A space-based infrared camera
- D) A computer-controlled mirror array

3. Which discovery from Galileo's observations changed views of the solar system most?

- A) The Sun is exactly the size of Earth
- B) Stars are smaller than nearby planets
- C) Jupiter has its own orbiting moons
- D) The Moon emits its own bright light

4. How do modern astronomers extend what Galileo started?

- A) By staring at the Sun without protective filters
- B) By guessing star distances from feelings rather than data
- C) By giving up telescopes for unaided eye observations
- D) By using space telescopes that detect many wavelengths of light

## Part B: Fill in the Blank

Write the correct answer on each line.

1. Ancient astronomers used star patterns to mark the changing \_\_\_\_\_ of the year.
2. Galileo used a \_\_\_\_\_ to look more closely at the Moon, Jupiter, and the Milky Way.
3. When Galileo saw four points of light circling Jupiter, he realized they were Jupiter's \_\_\_\_\_.
4. Modern astronomers place some telescopes in space to avoid blur from Earth's \_\_\_\_\_.
5. Studying the sky over time helps scientists understand how stars are \_\_\_\_\_ and how they change.

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4. Modern astronomers place some telescopes in space to avoid blur from Earth's atmosphere .
5. Studying the sky over time helps scientists understand how stars are born and how they change.