

# Chapter 1 Study Guide

Write the term that matches each definition:

|               |        |        |               |            |             |
|---------------|--------|--------|---------------|------------|-------------|
| <b>Terms:</b> | axis   | comet  | constellation | meteorite  | telescope   |
|               | meteor | planet | revolution    | rotation   | satellite   |
|               | star   | orbit  | ellipse       | axial tilt | planosphere |

\_\_\_\_\_ remaining material from a meteor that reaches Earth's surface

\_\_\_\_\_ a mass of gas that produces light and heat through nuclear reactions

\_\_\_\_\_ an object that orbits another object in the sky

\_\_\_\_\_ a group of stars that form a pattern in the night sky

\_\_\_\_\_ one complete trip in a planet's orbit

\_\_\_\_\_ an imaginary rod stretching between the planet's North and South Poles

\_\_\_\_\_ a map of the night sky

\_\_\_\_\_ a large object that circles (orbits) a star and does not produce light of its own

\_\_\_\_\_ the path a planet takes around the sun (or other star)

\_\_\_\_\_ to turn or spin completely around

\_\_\_\_\_ oval shape

\_\_\_\_\_ giant chunk of ice made mostly of frozen water, ammonia, and methane, mixed with dust and debris

\_\_\_\_\_ chunks of rock that are drawn in by Earth's gravity and fall through the atmosphere; friction causes them to burn up

\_\_\_\_\_ a device that makes objects that are very far away appear closer

\_\_\_\_\_ the angle created by the axis of a planet

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Choose or write the correct answer to each question.

16. Around which star do the constellations of the Northern Hemisphere appear to revolve?
- A. Betelgeuse
  - B. Orion
  - C. Polaris
  - D. Sun
17. What causes day and night?
- A. the Earth's revolution around the sun
  - B. the Earth's rotation on its axis
  - C. the Earth's momentum around the sun
  - D. the sun's revolution around the Earth
18. What causes a planet's year?
- A. the Earth's revolution around the sun
  - B. the Earth's rotation on its axis
  - C. the Earth's momentum around the sun
  - D. the sun's revolution around the Earth
19. What causes seasonal changes throughout the year?
- A. the Earth's revolution around the sun and its axial tilt
  - B. the sun's revolution around the Earth and its axial tilt
  - C. the Earth's momentum around the sun
  - D. the Earth's rotation on its axis and its axial tilt
20. Which of these statements are true? Circle all that apply.
- A. Summertime has more hours of daytime than night time.
  - B. Summertime has more hours of night time than daytime.
  - C. Wintertime has more hours of daytime than night time.
  - D. Wintertime has more hours of night time than daytime.
21. What names do people call the constellation known to the Micmacs as the Celestial Bear? Circle all that apply.
- A. Ursa Major
  - B. Ursa Minor
  - C. The Big Dipper
  - D. The Little Dipper
22. What is the object that we call the Morning Star and Evening Star?
- A. a comet
  - B. a meteor
  - C. Venus
  - D. Mars
23. Which type of telescope uses only lenses and looks like a long, narrow tube?
- A. factory telescope
  - B. reflecting telescope
  - C. large telescopes
  - D. refracting telescope

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24. Which type of telescope uses mirrors and a lens?  
A. factory telescope  
B. reflecting telescope  
C. large telescopes  
D. refracting telescope
25. Which type of telescope is used for the largest telescopes in the world?  
A. factory telescope  
B. reflecting telescope  
C. large telescopes  
D. refracting telescope
26. What is the name of a large telescope that orbits Earth?  
A. Orion  
B. Betelgeuse  
C. Galileo  
D. Hubble
27. Which direction do comets' tails point?  
A. behind the comet as it moves forward  
B. toward the sun as the comet moves in its orbit  
C. away from the sun as the comet moves in its orbit  
D. comets don't have tails

28 – 30. Write the name of each of the constellations shown below.

Options:

Orion

Ursa Major

Cassiopeia

Ursa Minor

28. \_\_\_\_\_

29. \_\_\_\_\_

30. \_\_\_\_\_