

Earth, Moon, and Sun ▪ *Guided Reading and Study*

Phases, Eclipses, and Tides (pp. 20–27)

This section explains what causes phases of the moon, what causes eclipses, and what causes the tides.

Use Target Reading Skills

Look at Figure 11 in your text. In the graphic organizer below, write a second question you have about the figure. As you read about the phases of the moon, write the answers to both questions.

Q. Why does the moon have phases?
A.
Q.
A.

Motions of the Moon (p. 20)

- Circle the letter of each sentence that is true about motions of the moon.
 - The moon revolves around Earth once a year.
 - The same side of the moon always faces Earth.
 - The moon rotates slowly on its axis once every 27.3 days.
 - A “day” and a “year” on the moon are the same length.
- What causes the phases of the moon, eclipses, and tides?

Phases of the Moon (pp. 21–23)

- The different shapes of the moon you see from Earth are called _____.
- How often does the moon go through an entire set of phases?

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Phases, Eclipses, and Tides *(continued)*

5. What does the phase of the moon you see depend on?

6. Complete the table to show what you see during the different phases of the moon.

Phases of the Moon	
Phase	What You See
New moon	The side of the moon facing Earth is dark.
First quarter	a.
Full moon	b.
Third quarter	c.

d. Is the near side (facing Earth) always the dark side? Use the table to explain your answer.

e. What percentage of the dark side of the moon do you see during the first and third quarters?
