Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period\_\_\_\_\_\_\_\_

**Phases of the Moon**

**Review Guide**

1. How long does it take the Moon to go through its cycle of phases?
2. How much of the Moon’s illuminated side is seen in the first and third quarter phases? What is this shape called?
3. List the phases of the Moon in order starting with a new moon.
4. Why do we see only the one side of the Moon from Earth?
5. What motion of the Earth or Moon causes the Moon to show phases, as seen from Earth? Explain how this motion causes the phases.
6. Draw and label the Sun, Earth and Moon in their relative positions during a full moon.
7. Draw and label the Sun, Earth and Moon in their relative positions during a new moon.
8. What causes the phases of the Moon?
9. The phase of the Moon you see depends on what?
10. Draw a line across to match the phases which show the same amount of the lighted side of the Moon we can see from Earth.

New Full

Waxing Crescent Waning Gibbous

First Quarter 3rd Quarter

Waxing Gibbous Waning Crescent

1. Write a hypothesis in the If-Then-Because format for the following scientific question. Your manipulated and responding variables must be exact.

A scientist that works for Kellogg’s cereal company wants to see if Rice Krispy’s sales increase if they add more sugar to the ingredients of the cereal.

1. Write a hypothesis in the If-Then-Because format for the following scientific question. Your manipulated and responding variables must be exact.

A personal trainer wants to know if a person’s resting heart rate is affected by age.