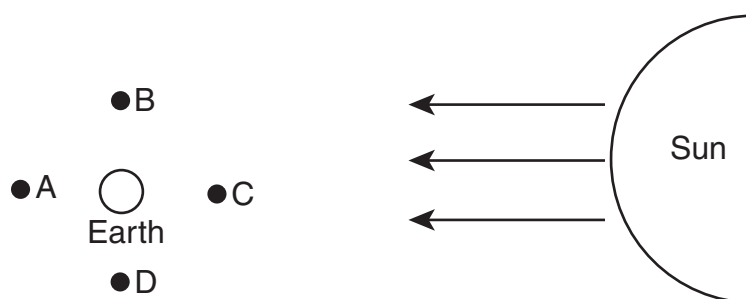


Checkout Questions

Lab 1. Moon Phases: Why Does the Appearance of the Moon Change Over Time in a Predictable Pattern?

1. The diagram below shows Earth and the Sun, as well as four different possible positions for the Moon (A, B, C, and D).



- a. Which position of the Moon (A, B, C, or D) would cause it to appear like the picture below when viewed from Earth? Circle the letter below.



A B C D

- b. How do you know?

LAB 1

2. You observe a crescent Moon rising in the east.

a. Which of the following pictures illustrates how it will appear in six hours?



a



b



c



d

b. How do you know?

3. One night you look at the Moon and see this:



a. Which of the following pictures illustrates how it will appear one week later?



a



b



c



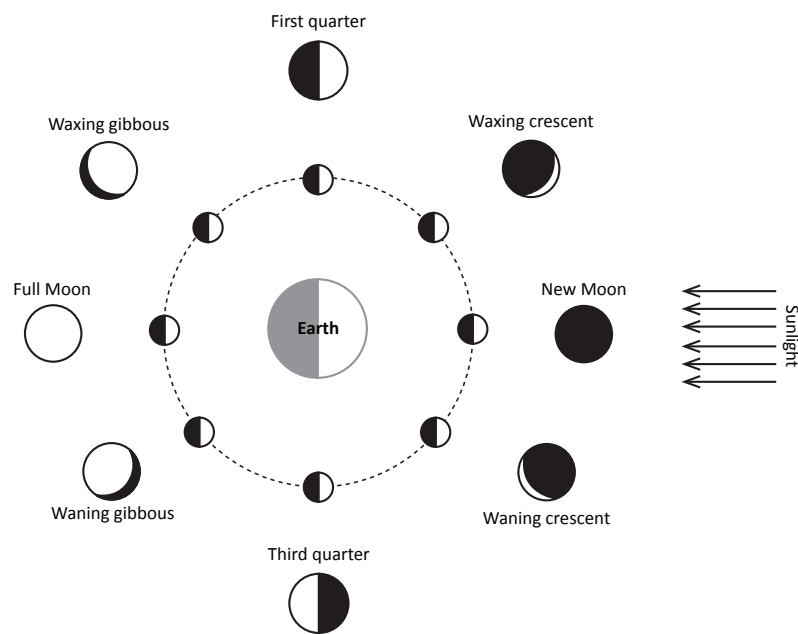
d

b. How do you know?

Moon Phases

Why Does the Appearance of the Moon Change Over Time in a Predictable Pattern?

4. The image below is a model of the Earth-Sun-Moon system.



- What are some strengths of this model?
- Based on what you know about the Earth-Sun-Moon system from your investigation, what are some limitations or incorrect portions of this model?

LAB 1

5. Scientists often look at patterns to identify relationships in nature. Give an example of a pattern from your investigation on Moon phases.

6. Models are pictures of things that we cannot see.

- a. I agree with this statement.
- b. I disagree with this statement.

Explain your answer, using an example from your investigation about the phases of the Moon.

7. There is a single scientific method that all scientists follow when conducting an investigation.
 - a. I agree with this statement.
 - b. I disagree with this statement.

Explain your answer, using an example from your investigation about phases of the Moon.