

Moon Motion



Procedure

1. Use a ball with a stick handle to stand for the Moon. Use a lamp or other light to stand for the Sun. You will be an observer on Earth. **Safety:** Do not touch the bulb. It will get hot.
2. **Use Models** Stand in front of the Sun model with your back to it. Hold the Moon model at arm's length in front of you and above your head. Look at the shape the light makes on the Moon.
3. **Observe** Slowly make a quarter turn in place and stop, keeping the Moon model in front of you.
4. **Record Data** Draw the shapes of light and dark that you observed on the Moon model in steps 2 and 3.

| | |
|--|--|
| | |
|--|--|

5. **Use Models** Repeat step 3 two more times. Face a different direction each time. Draw the shapes of light and dark you observe in the boxes on the next page.

Conclusion

1. Communicate Write three sentences explaining why the shapes in your drawings are alike or different.

2. Infer If you look at the Moon on different nights, do you think it will look the same? Explain.

Ask Questions

Guided Inquiry

Write a question about how the Moon appears to move each night. With an adult, observe the Moon. Record where you see it every hour for three hours.