



LOOK UP!

Grade K – 1 | 30 Minutes

Program Overview

Description

Model the daily motion of the sun and stars in this active planetarium program. Students will explore daily changes in the day sky and night sky as well as seasonal changes. Complete your program with a brief discussion on moon phases and a look at the current night sky.

Adult chaperones recommended: 2

Content Standards

| Subject | Gr | Ohio Department of Education Standards |
|-------------|----|---|
| Earth/Space | K | The moon, sun and stars can be observed at different times of the day or night. |
| Earth/Space | 1 | The sun is the principal source of energy. |

Vocabulary

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|----------|--------|
| Phase | stars |
| Moon | sun |
| Day | sphere |
| Night | |
| rotation | |

Books we recommend

- Moonfinder by Jay Ryan. Fourth Day Press, Cleveland, OH, 2011.
- The Sun by Ralph Winrich. Capstone Press, 2008.
- What Makes Day and Night by Franklyn Branley. Harper Collins, 1986.

Post-Trip Activities

Experiment with shadows from the sun. Questions to explore include: What happens to a shadow throughout the day? Can the length of a shadow be measured? How does the shape of the shadow change? Can shadows be made inside? Use light bulbs, overhead projectors, virtual investigations or combinations of the above to explore inside shadows.

Other Resources

Earth's rotation: <https://youtu.be/MtRzy2TJAOQ>

Phases of the Moon for kids: <https://youtu.be/le2WRraxdPs>