

Model the Movements of the Sun

Planting by the Sun and Moon - Lesson 1



For the Classroom

- Group structure - whole group or small groups
- Location - in open area
- Approximate time - 20 minutes

Common Core and Georgia Standards of Excellence

- S6E1d. Explain the motion of objects in the day/night sky in terms of relative position.
- S6E2a. Demonstrate the phases of the moon by showing the alignment of the earth, moon, and sun.
- S6E2c. Relate the tilt of the earth to the distribution of sunlight throughout the year and its effect on climate.

Reproducibles

- "Sun, Earth, and Moon" Cards (1 set)

Directions

1. Sun – Choose one student to stand in the middle of the learning space to serve as the sun.
2. Earth's Revolutions – Choose another student to serve as the Earth and model the revolutions around the sun. How long does it take the Earth to revolve around the sun?
3. Earth's Tilt – Have the same student carefully attempt to tilt in one specific direction while revolving around the sun. How does the tilt of the Earth affect us? (Seasons) Discuss what seasons are occurring at different times throughout the revolution around the sun (year). How does this affect our garden? How would this affect people growing food in other parts of the world? Earth's Rotations – Have that same student carefully attempt to model
4. Earth's rotations. How long does it take the Earth to revolve around the sun? Discuss what time of day is occurring at different times throughout the rotation. How does this affect our garden?
5. Moon – Choose another student to serve as the moon and carefully model revolutions around the Earth. Discuss the moon phases that occur based on the alignment of the sun, earth, and moon. How does this affect our garden?

Lesson Created by Jenna Mobley for Georgia Organics