

Unit 2: Energy

Content Area: **Science**
Course(s):
Time Period: **Generic Time Period**
Length: **4 weeks**
Status: **Published**

Disciplinary Core Ideas

Sunlight warms Earth's surface.

MA.K.K.MD.A.2	Directly compare two objects with a measurable attribute in common, to see which object has "more of"/"less of" the attribute, and describe the difference.
SCI.K-PS3-2	Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area.
SCI.K-PS3-1	Make observations to determine the effect of sunlight on Earth's surface.
LA.K.W.K.7	Participate in shared research and writing projects (e.g., explore a number of books by a favorite author and express opinions about them).
SCI.K-PS3	Energy

Essential Questions

- How does the Sun warm the Earth?
- How can I protect myself from the Sun?
- How can you slow down the melting of an ice cube?

Activity

Introduce energy Vocabulary using Science Notebook.

Complete Sun Science page. (Our Sun is, has, can)

Lesson on Shade

Sun questions in student notebook

Ice cube investigation

Enduring Understanding

1. Dark and light colored surfaces in sunlight are warmed by different amounts and at different rates.
2. Different materials in sunlight are warmed by different amounts and at different rates.
3. Structures create shade; they block sunlight.
4. For a given surface, the more sunlight it is exposed to, the warmer the surface

Assessment

1. Student Notebook Activities
2. Writing prompts
3. Participation in Activities
4. Teacher Observation

Materials & Resources

<https://mysteryscience.com>

1. Student Notebook
2. Ice Cubes
3. Construction paper,
4. Paper towel rolls
5. Popsicle sticks

Accommodations and Modifications

- Large print textbooks
- Additional time for assignments
- Review of directions
- Have student restate information
- Provision of notes or outlines
- Concrete examples
- Adaptive writing utensils
- Support auditory presentations with visuals
- Weekly home-school communication tools (notebook, daily log, phone calls or email messages)
- Space for movement or breaks
- Extra visual and verbal cues and prompts
- Books on tape
- Graphic organizers

- Quiet corner or room to calm down and relax when anxious
- Preferential seating
- Alteration of the classroom arrangement
- Reduction of distractions
- Answers to be dictated
- Hands-on activities
- Use of Manipulatives
- Follow a routine/schedule
- Alternate quiet and active time
- Teach time management skills
- Rest breaks
- Verbal and visual cues regarding directions and staying on task
- Daily check-in special education teacher
- Visual daily schedule
- Varied reinforcement procedures
- Immediate feedback
- Personalized examples