



First Grade Science

First Grade Science: Activity 1

How can you stop an ice cube from melting so fast?



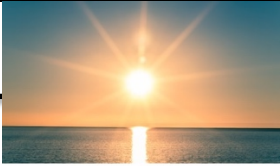

Directions: This handout can also accompany a KCSatHome Teacher Video. If you have access to the video, watch the video before doing this activity. You can find the videos at <https://www.knoxschools.org/Page/21816>



Sunlight warms Earth's surfaces! When sunlight touches sand, soil, water, or the ground it makes the temperature of those surfaces warmer. When sunlight is blocked from reaching a surface, the temperature is cooler. The water in a swimming pool in the sun is warmer than a swimming pool that is under a tree in the shade. Sand on the beach is hotter in the sunlight than it is under an umbrella. Sunlight warms Earth's surfaces!

Part 1: Temperature Investigation

1. Find a spot on the concrete with a sunny and shady spot.
2. Look at what is different.
3. Feel what is different. Put one hand on the shaded concrete and one on the sunny concrete.
4. Write what you see and feel below.

	Sunny Spot	Shady Spot	

Part 2-The Ice Cube Challenge: Try to stop an ice cube from melting fast!

1. Gather Materials: things found outside; twigs, rocks, leave grass, moss, flowers
2. Plan: Use what you have learned to create a structure that will slow the melting of an ice cube.

Draw your structure and label what you will use:

3. Create: Use your outside materials to build your structure.



4. Test It: Put one ice cube in the sun and one under your structure. Time them to see which one melts first.

Ice cubes:	Time it took to melt:
In the sun	
Under the structure	

5. Reflect: Were you able to slow down the melting of the ice cube? Why did you choose the materials you used? Would you do it differently next time? Write or talk about it with a family member.