



TEACHER

**Ruth Palmer**

SCHOOL

**Ockerman Elementary**

LOCATION

**Florence, KY**



## SUN HEATING EFFECT EXPERIMENT

### LESSON MATERIALS

- Craft supplies
- Chocolate bars
- Thermometers
- Outdoor space

### INTENDED STUDENTS

Kindergarten kids

### DESCRIPTION

This lesson plan uses chocolate bars to understand the heating effect of the sun on the earth.

### LESSON INSTRUCTIONS

- Break students into groups
- Have them brainstorm on how to protect items from the sun's effect
- Have each group sketch their agreed upon idea
- Have them create their idea with craft materials
- Afterward, students go outside to test their idea using chocolate bars and a thermometer

### TEST DETAILS

1. Place one candy bar and thermometer in the sun on the ground as a control
2. Place a candy bar and thermometer under each design
3. Students sketch what the candy bars look like at this point
4. Take a reading of the thermometer
5. Let them sit outside for approximately 20 minutes then go back out to check
6. Students sketch what the candy bars look like after, and we take another temperature reading
7. Use this opportunity to compare their candy bars to the control
8. Go back inside and discuss our finding
9. Students should also discuss whether their idea worked or not, and how they could improve
10. Then we all eat some candy bars!



*It was very entertaining for the intended age group and accomplished a number of scientific and meteorological lesson goals.*



**Mark Hoekzema | Contest Judge**