**Building Structures that Prevents Ice from Melting**

**Purpose:** shows them how to build a structure to create shade and make an area cooler

**Materials:**

Ice  
A cup  
Thermometer  
Different materials to build structures  
Paper  
Glue  
Tape  
Construction paper  
Toilet paper rolls  
Color pencils

**Procedure:**

1. Put a cube of ice inside the cup and put the cup outside on the sunlight for ten minutes.
2. Use a thermometer and measure the water temperature of the cup and record your result in the worksheet..
3. On your worksheet, draw a design of a structure that you want to build so that ice does not melt easily.
4. Gather all the materials that you need to build for the structure that you designed.
5. Start building your structure!
6. After the structure is built draw your final design of the structure on your worksheet.
7. Take your completed structure outside on the sun.
8. Put a cube of ice inside the cup and put the cup under the structure you have built for ten minutes.
9. Use a thermometer and measure the water temperature of the cup and record your result in the worksheet.

Student Worksheet:

**Building Structures that Prevent Ice from Melting!**

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Data:

Temperature of cup of ice Temperature of cup of ice

under the sunlight under your structure

|  |  |
| --- | --- |
| \_\_\_\_\_\_\_\_ °F | \_\_\_\_\_\_\_\_ °F |

2. Design the structure that you want to build!

|  |
| --- |
|  |

3. Draw the structure you have built!

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|  |

4. Did your structure help slow down the ice from melting? Why or why not?