Smart Goal: 50% or more of the sixth grade students will be successful in making their Solar S’mores by the end of the second class.

Names\_\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_,\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Solar S’mores**

**Lab Sheet**

**Directions:** Use this lab sheet to record your pre lab planning, during lab observation, and post lab conclusion.

**Research:** After reviewing information presented in class on solar energy. As a team you will need to research best methods for gathering the sun’s renewable energy for constructing a solar oven. You may use the internet or media center text resources.

List of our Site Sources: \*

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**Planning Your Lab**

#1. Hypothesis: What you think will happen and why with evidence of research  
Example: *We think the solar oven made with the shiny side of the aluminum foil face up will cook a s’more faster than the solar oven made with the dull side of the aluminum foil face up because the shiny side of the aluminum foil heated up faster than the dull side in our research.*

**#2. List the conductor and insulator your team chose.**

Example:Black Paper, Aluminum foil – shiny or dull, Cookie Sheet- black or silver, Mirror…

Conductor:

Insulator:

**#3. Explain the difference between the conductor and Insulator.**

Example:Conductor: Aluminum Foil-the solar oven will use the shiny side of the aluminum foil to… Insulator: The glass dish with lid will…

**#4. Draw a rough sketch or diagram of how your solar oven will look**

**Day 2: Cooking Solar S’mores**

**#5: What are your observations?** Use descriptive words like brown, light, firm, gooey…

Sight-

Sound-

Touch-

Smell-

**#6 Conclusion** Re-read your hypothesis and answer these questions.

1. Based on the results of your experiment, was your hypothesis supported? Why or why not?
2. What would you do differently next time?
3. What foods do you think would cook well in your solar oven?
4. Design a different solar oven that you think would work better.
5. Sketch and label your oven.