

Name _____ Date _____ Period _____

ENGINEER A SOLAR OVEN

In this project, you will be part of a team that will compete to build a solar energy collector for cooking. Your goal is to design, research, build, and test a solar oven that will reach an internal temperature of **180 degrees F**. That should be hot enough to melt marshmallows in order to make "S'mores".

There are a few requirements that you must meet:

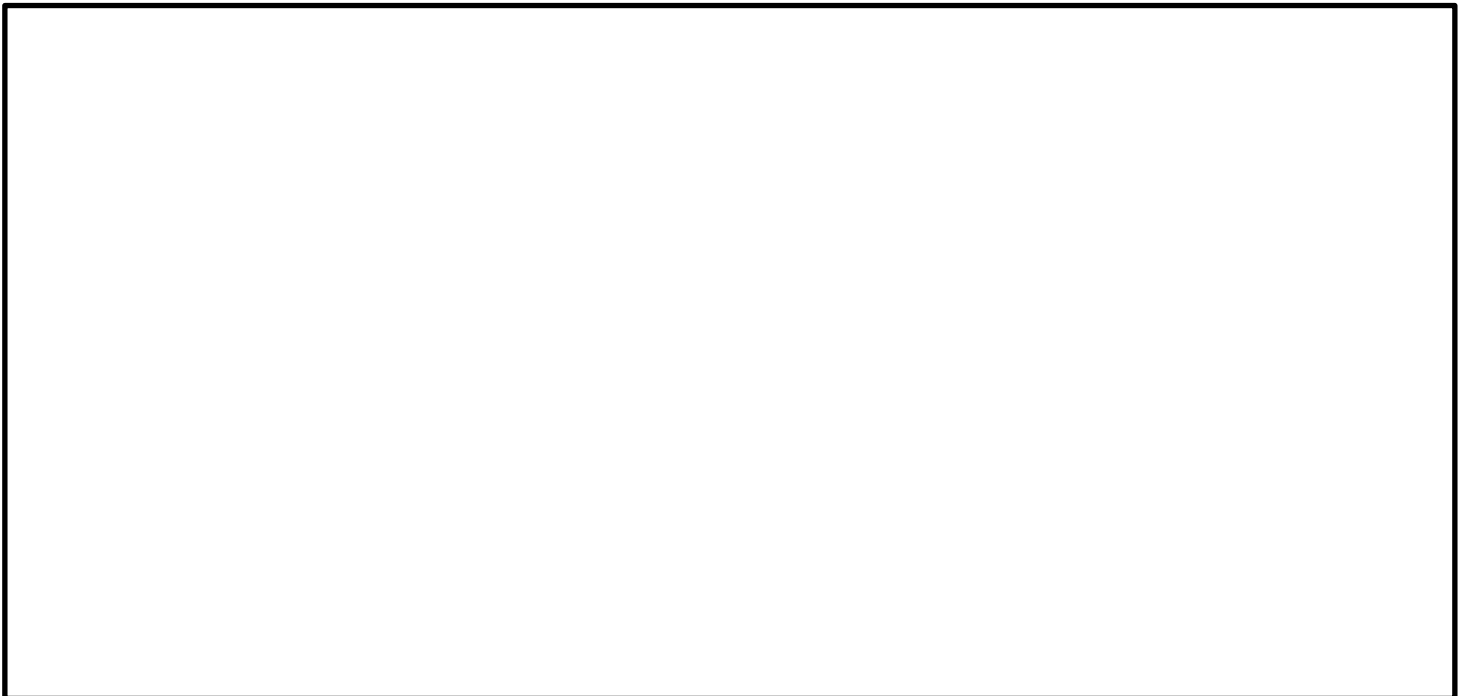
1. Your oven will be a **box style**.
2. You must choose a **variable** to test during the project
 - a. Small box vs. large box
 - b. Light color paper inside vs. dark colored paper inside
 - c. Open box vs. tightly closed box
 - d. Insulation vs. no insulation.
3. You are not allowed to use anything that has magnification (magnifying glasses and papers are not allowed)
4. Can only use items from home, no purchasing items
5. Saran Wrap and tape are provided by the teacher, the rest is up to the group.

Team Members:

6. Who are you working with to complete this project? (**Groups may not be larger than 3**)
 - a.
 - b.

Variable:

7. What Variable are you testing?
8. Are you working with another group or alone to test the variable?
9. In the space below draw and label the solar oven you created



10. Explain how the solar oven created is an example of a greenhouse.