



Mystery Challenge #6: Design and Build a Solar Oven!! *Let's get COOKING!*

The **CHALLENGE**: Design and build a solar oven that you can actually use once it's complete! You can use some of the suggested materials listed below or be creative and identify different materials. Once you have successfully built your oven, it's time to test it out! If you have a few marshmallows on hand, try to roast them using your new oven. If your solar oven "gets cooking", you have **MASTERED** the challenge! Use your phone to record and take pictures of your solar oven and post it to your social media page. You **MUST** use the following hashtags: #NC4H, #NC4HMYSTERYCHALLENGE, #NCATEExtension, #SOLAROVENCHALLENGE

SUGGESTED MATERIALS: Paper box, aluminum foil, glue, scissors, black construction paper, plastic wrap, snacks for cooking (marshmallows, etc.)

TIME: 24 hours beginning at 9:00 am

DESIGN & CREATE: Design the blueprint for your solar oven. Once your blueprint is complete, build your oven using the suggested materials or other materials you may have on hand. With your parents, discuss what you think the outcome will be once your solar oven is complete. After you've created your blueprint and constructed your oven, test it out!

TEST & IMPROVE: Test your solar oven, seek improvements, and make adjustments!

SHARE: Share your design on Social Media using the following hashtags: #NC4H, #NC4HMYSTERYCHALLENGE, #NCATEExtension, #SOLAROVENCHALLENGE

BACKGROUND BASICS! From campfires to microwaves, we know there are multiple ways to prepare a snack. This includes using solar energy! Solar energy is the light and heat produced from the sun. That solar energy is used to power farms, cars, and even cook food!



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