

# The Solar Oven

Q57



# RESEARCH

I used [www.education.com](http://www.education.com) for most of my experiment. It gave me instructions for what I needed to use and how I needed to use it. For example, when I used the instructions, I used it to help me know what I was using all of the materials for. It also gave me an example on what I could use as my cooking ingredients. I decided to do a smore, and nachos as the food i wanted to cook.

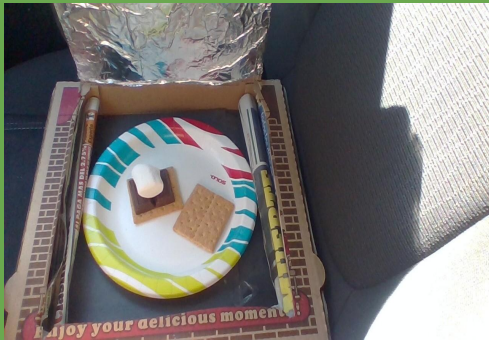
# MATERIALS

I used a lot of materials for this project. The main part was the cardboard pizza box that I use as my oven. Other things I used were aluminum foil, plastic wrap, newspapers and a plate all for different reasons such as the foil, which is for the sun to attract on to the oven which will cook the s'mores. I used baking ingredients like smores, and nachos for this project.

# EXPERIMENT

I am going to try to put some smore ingredients such as a graham cracker, 2 pieces of chocolate and a marshmallow into the solar oven and put it out in the sun. Then I will wait 3-5 hours and hope that the oven will cook the smore. To do this, I used the materials to make a solar oven and turned a pizza box into an oven. The tin foil will attract heat from the sun and begin to heat the smore in the oven.

# PHOTOS





# CONCLUSION

I had bad luck the first 2 times, so I had to be a little more confident. I waited for a sunny day and tried it out. I was ready to give up because of my frustration on my first 2 tries. but I didn't let that stop me, since science is about trying, and failing. I had to think out of the box and find a way that would work. When I came up with it I knew it was perfect since not only would the s'more would be cooked, but no wind would get in the way of it.



# REAL WORLD CONNECTION

I failed the first 2 times, since the first time I messed up, since I forgot to close the lid to the box, and on the second time the weather got in the way of the project. So the 3rd time I tried it, i had to outsmart nature. I came up with a way that would work, I put it inside my moms car on the dashboard so that the sun would amplify through the windshield. This worked out great and when I tried the s'more, it was delicious, which was just the way I wanted it. It wasn't quite like a campfire, but it was still pretty good.

# WORKS CITED

[www.education.com](http://www.education.com) was very helpful during this project. I used it for all of my experiment and it helped me learn what the oven did and what I had to do to use it correctly. I tried a big box for my first attempt, but I cut the whole box and didn't make 3 cuts. Then I had to get a second box and we got a smaller one so it wasn't so big. That time I understood it and made it the right way. Then it was done and i didn't need to worry about messing up again.