

# Solar Oven Worksheet

## Data Table Part B. Testing the Oven

Outdoor temperature: \_\_\_\_\_°C

Time, minutes	Oven Temp., °C	Observations
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

## Data Table Part C. Design Challenge

Outdoor temperature: \_\_\_\_\_°C

Time, minutes	Oven Temp., °C	Observations
0		
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

## Post-Lab Questions

- Consider the temperature inside the oven in Part B.
  - How much did the temperature increase in 15 minutes?
  - How much higher was the temperature inside the oven than the outside air temperature?
- Describe and give a reason for each modification your group made to the solar oven.
- Compare the temperature data from Part B to the data from Part C.
  - Did the modifications to the design achieve the desired results?
  - Why do you think this was so?
- What other improvements might make the solar oven more efficient?
- List the advantages and disadvantages of cooking with solar energy.