Name _____ Date _____ Period _____ 87

Collecting Solar Energy

Day 3 – Solar Oven Test

Complete the data table while outside to test the solar oven built last class. Remember that a variable is being tested, so one set of data will show the solar oven your group completed in table A, while the data for the other team will be shown in data table B. This will allow you to compare the variable being tested.

Solar Oven Time vs. Temperature

Table A Variable _____

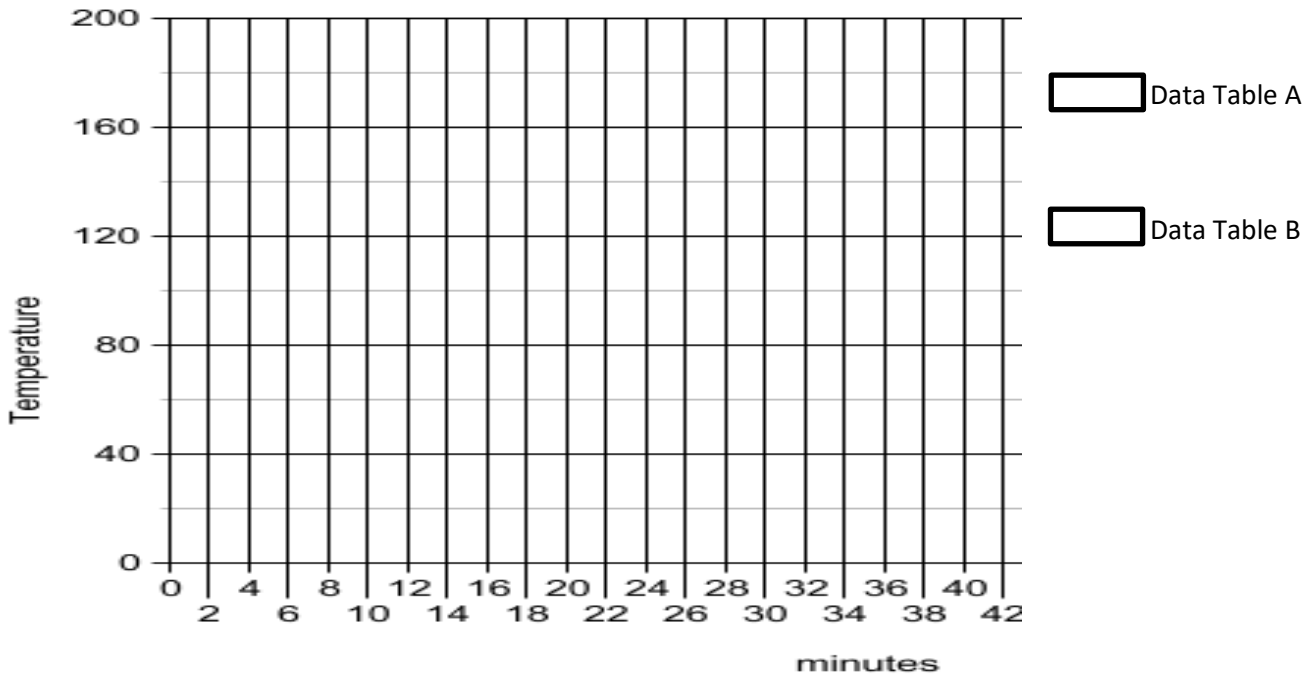
Time (min)	Temp (°F)	Time (min)	Temp (°F)	Time (min)	Temp (°F)
0		14		28	
2		16		30	
4		18		32	
6		20		34	
8		22		36	
10		24		38	
12		26		40	

Solar Oven Time vs. Temperature

Table B Variable _____

Time (min)	Temp (°F)	Time (min)	Temp (°F)	Time (min)	Temp (°F)
0		14		28	
2		16		30	
4		18		32	
6		20		34	
8		22		36	
10		24		38	
12		26		40	

Use the information from the data tables to create a graph to display the results and answer the following questions. Use 2 different colors to identify the data from your group vs. the group you tested a variable with.



Analysis Questions

1. What variable was tested with the other group?

2. What was the highest temperature solar oven “A” reached?

3. What was the highest temperature solar oven “B” reached?

4. What factor do you think affected the results between the 2 solar ovens the most?

5. What could be done to improve your group’s solar oven?

6. Write a paragraph below explaining how a solar oven is like a greenhouse.