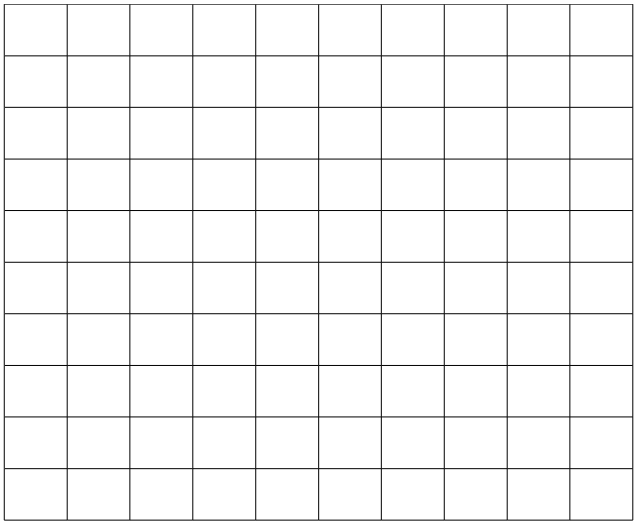
1. Observe the experimental setup.
   - What do you think will happen when you switch on the lamp?

   - What is the difference between the two jars?

2. Make a prediction as to what phenomenon this experiment is modeling.

3. Switch on the lamp. Record times and temperatures in the table below. Be sure to label which jar is #1 and #2. Plot the temperatures on the graph as a function of time (one line for each jar)

Time (mm:ss)	Jar #1:	Jar #2:
00:00		
01:00		
02:00		
03:00		
04:00		
05:00		
06:00		
07:00		
08:00		
09:00		
10:00		



4. Which jar got hotter? Why do you think that was?

5. What happens to energy when it hits an object?

6. What sorts of energy are hitting the jar? Are they all doing the same thing?

7. What molecules are in the jar?

8. What molecules are in the atmosphere?

9. Look at your answer to #2. Do you still agree with it? In what ways is this activity a good model for the real world?

10. In what ways does this example do a poor job modeling the real world?