



In this adventure, you will test which solar collector—black, white, or silver—absorbs the most heat.

1. Subtract the initial temperature from the final temperature to find the change in temperature of each color.
  
  
  
  
  
  
  
  
  
  
2. Which can color made the best solar collector? Why?
  
  
  
  
  
  
  
  
  
  
3. Which color reflected the best? Why?
  
  
  
  
  
  
  
  
  
  
4. Rank the solar collectors from the greatest temperature increase to the least. Give reasons why these results seem reasonable/unreasonable.
  
  
  
  
  
  
  
  
  
  
5. If the can's or solar collector's surface is painted \_\_\_\_\_, more heat will be absorbed and the interior temperatures will increase more than if the color were \_\_\_\_\_ or \_\_\_\_\_.



Time (in seconds)	Temp. (°C) Black	Temp. (°C) Silver	Temp. (°C) White
0			
30			
60			
90			
120			
150			
180			
210			
240			
270			
300			
330			
360			
390			
420			
450			
480			
510			
540			
570			
600			

