

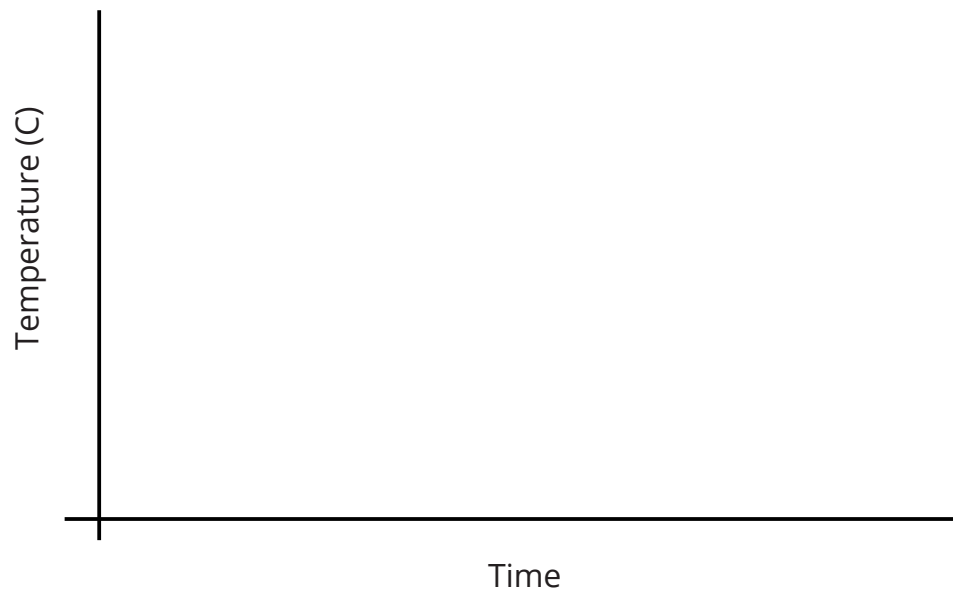
# STUDENT DATA SHEET

## OBSERVATIONS

	Thermometer 1	Thermometer 2	Thermometer 3
Control Temperature (in the shade)			

Temperature in the spectrum	Thermometer 1 (Blue)	Thermometer 2 (Yellow)	Thermometer 3 (beyond red)
1 minute			
2 minutes			
3 minutes			
4 minutes			
5 minutes			

## GRAPH YOUR MEASUREMENTS



## CALCULATIONS

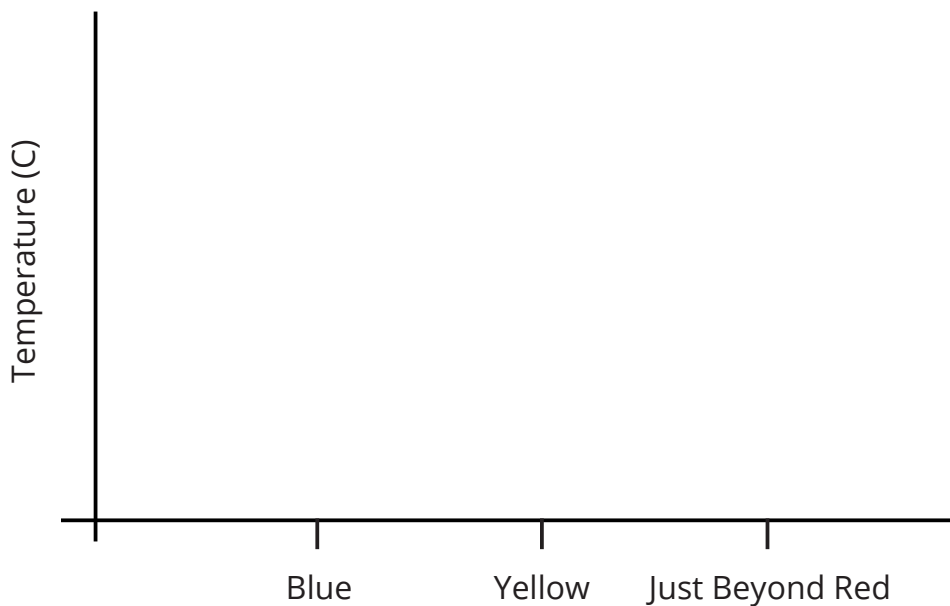
Calculate the average final temperatures measured by the class in each part of the spectrum

	Sum of final Temps (X)	Total number of final measurements (Y)	Class average (X / Y)
<b>Blue at 5 minutes</b>			
<b>Yellow at 5 minutes</b>			
<b>Just beyond red at 5 minutes</b>			

Calculate the difference between the control temperature and the class average final temperature for each part of the spectrum

Blue: \_\_\_\_\_ °C      Yellow: \_\_\_\_\_ °C      Just Beyond Red: \_\_\_\_\_ °C

## GRAPH THE TEMPERATURE DIFFERENCE BETWEEN THE CONTROL AND EACH PART OF THE SPECTRUM



## CONCLUSIONS

1. What are your thoughts on the temperature measurements? Did you notice anything interesting? If so, what? Explain.
2. Did you see any trends in your data? Explain.
3. Which portion of the spectrum had the highest temperature after 5 minutes? Why do you think this portion had the highest temperature?
4. What do you think exists just beyond the red light, where there was no color? What do you think caused this area to increase in temperature?
5. Was there anything that went “wrong” during this experiment that you think may have affected your results? If so, discuss them here.