

Name:

Date:

Class:

## Crystal Creator Worksheet

1. What type of crystal did your team grow?

\_\_\_\_\_ % alum and \_\_\_\_\_ % chrome alum

2. Fill in the resistance measurements for the following: temperatures going up from 20 degrees to 90 degrees in 5 degree increments and then temperatures coming back down from 90 degrees to 20 degrees in 5 degree increments.

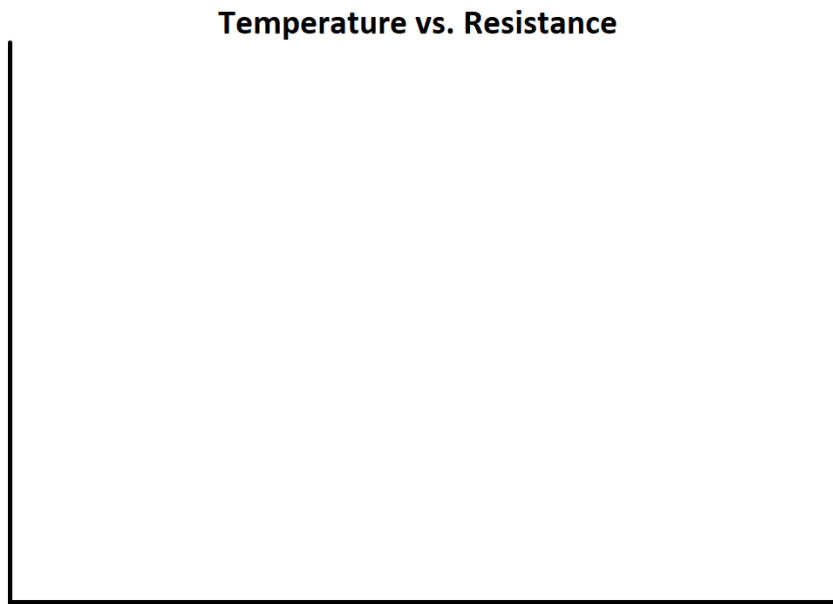
Temperature (20 to 90 deg)	Resistance (ohms)	Temperature (90 to 20 deg)	Resistance (ohms)
20		90	
25		85	
30		80	
35		75	
40		70	
45		65	
50		60	
55		55	
60		50	
65		45	
70		40	
75		35	
80		30	
85		25	
90		20	

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3. Graph your temperature vs. resistance data.



4. What relationship does temperature have with resistance? Why do you think that relationship exists?

5. Hypothesize: What do you think you should change to decrease the resistance of your crystal? Why?