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# The Great American Eclipse

Navigate to the [CODAP](#) application, drop in the satellite data, click on the “Try CODAP” button in the upper right-hand corner, drop in the eclipse data and follow the directions below to start exploring.



This picture was taken on August 21, 2017 near Redmond, Oregon.

AP Photo/Ted S. Warren  
<http://abc7.com/weather/photos-solar-eclipse-2017-captivates-america/2330659/>

Part A: Click on the “Graph” button in the upper left-hand corner of the CODAP interface. Drag the column labeled “Time in Seconds” from your table and place it on the x-axis, and drag the column labeled “Temp in Fahrenheit” and place it on the y-axis.

1. What is the **maximum** Temperature value (don't forget units)? \_\_\_\_\_
2. What is the **minimum** Temperature value? \_\_\_\_\_
3. What is the **difference** between the **maximum** and the **minimum** Temperature? \_\_\_\_\_



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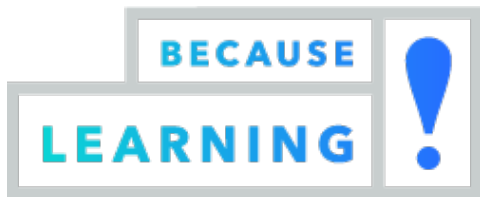
\_\_\_\_\_

Part B: Click on the “Graph” button in the upper left-hand corner of the CODAP interface. Drag the column labeled “Time in Seconds” from your table and place it on the x-axis, and drag the column labeled “Luminosity in LUX” and place it on the y-axis.

1. What is the **maximum** Luminosity value (don't forget units)? \_\_\_\_\_
2. What is the **minimum** Luminosity value? \_\_\_\_\_
3. What is the **difference** between the **maximum** and the **minimum** Luminosity? \_\_\_\_\_




Part C: Click on the “Graph” button in the upper left-hand corner of the CODAP interface. Drag the column labeled “Time in Seconds” from your table and place it on the x-axis, and drag the column labeled “UV in mW/cm<sup>2</sup>” and place it on the y-axis.




1. What is the **maximum** UV value (don't forget units)? \_\_\_\_\_
2. What is the **minimum** UV value? \_\_\_\_\_
3. What is the **difference** between the **maximum** and the **minimum** UV? \_\_\_\_\_

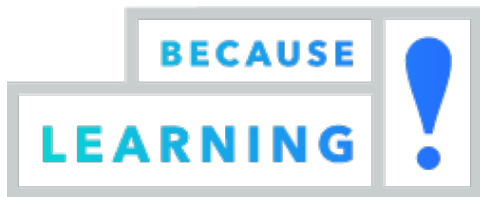


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Part D: Now that you have 4 graphs—Temperature, Luminosity, UV, and RGB Luminosity--let's use them to assign values to the different stages of the eclipse. Use the pictures below and your graphs on CODAP to assign values to the different stages of the eclipse. Don't forget your units!

		
Time Estimation: _____	Time Estimation: _____	Time Estimation: _____
Temperature: _____	Temperature: _____	Temperature: _____
Luminosity: _____	Luminosity: _____	Luminosity: _____
UV: _____	UV: _____	UV: _____

		
Time Estimation: _____	Time Estimation: _____	Time Estimation: _____
Temperature: _____	Temperature: _____	Temperature: _____
Luminosity: _____	Luminosity: _____	Luminosity: _____
UV: _____	UV: _____	UV: _____



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Time Estimation: \_\_\_\_\_

Temperature: \_\_\_\_\_

Luminosity: \_\_\_\_\_

UV: \_\_\_\_\_

Time Estimation: \_\_\_\_\_

Temperature: \_\_\_\_\_

Luminosity: \_\_\_\_\_

UV: \_\_\_\_\_

Time Estimation: \_\_\_\_\_

Temperature: \_\_\_\_\_

Luminosity: \_\_\_\_\_

UV: \_\_\_\_\_