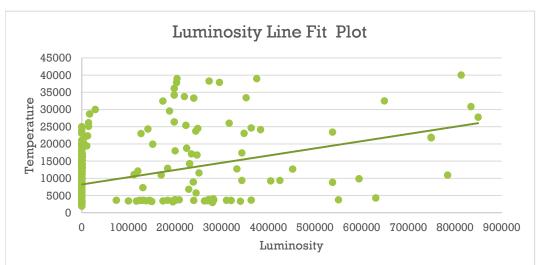
Evaluating the data given about the Stars and it's attributes compared to the Sun.

Can a Star be like the Sun?

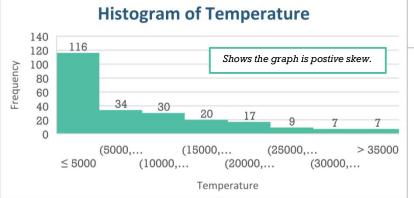
Darlene Ho

Trying to find that the yellow dwarf stars has the attributes of the sun spectrum.



Using the regression line fit plot, I was able to determine that the yellow dwarf star to be false but was able to find the new star's color, 'White,' with the given slope and intercept from the luminosity line fit plot.

Temperature	
Mean	10497.46
Standard Error	616.61
Median	5776
Mode	3600
Standard Deviation	9552.43
Sample Variance	91248824.09
Kurtosis	0.877
Skewness	1.322
Range	38061
Minimum	1939
Maximum	40000
Sum	2519391
Count	240



With Statistic summary, we are able to find the mean, median, kurtosis and skewness of the given dataset of the stars.

There are 5 stars that have the Absolute Magnitude of Stars that is closest to the sun. The radius of the sun compared to the radius of the stars, also the absolute magnitude of the stars vs the sun.

I was able to find there was a weak correlation coefficient of r = -0.42, between absolute magnitude and temperature.

The regression plot of the Luminosity line fit plot graph shows the slope, intercept and the R^2 value of 15%.

I found there are some stars that has specs of a sun but not all the attributes: luminosity, radius and absolute magnitude. If comparing the data individually, you'll see there are a few that may have one or two of the attributes but not all. To conclude from all the data thus far, collecting more data on Stars to do futher analysis is recommended.

