Parkland College

Natural Sciences Poster Sessions

Student Works

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Orion

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The purpose of this project was to gather information of the Stars and objects in certain constellations. Using my favorite constellations. Using my favorite constellation, Orion, I learned the procedures to calculating and finding information on stars and how that information is important. This project not only has taught me the aximuth and altitude of stars, but also things like their age, their time remaining, their stellar fale, etc.,

List of stars.

1. Alnilam L. Mintaka

2. Alnitak 7. Natir al Saif

3. Bellatrik 8. Pi 3 crionis

4. Betelgeuse 9. Aigel

5. Meissa 10. Saiph

To find the langth of year, I chose one of the 10 stars in orion.
I chose Betelgelee.
Starting at May 23th I recorded the rise time in this chart.
I did the same for the 4 weeks following Lay 23th.

Then, I calculated how much of a difference the rise time was neek to week. As seen below, the change in rise time was 27 minutes 31 seconds for each except 1013-10100 when it was 27 minutes 32 seconds. To find the change in time perday, the change in rise time was converted into decimal minutes 127.52 + 2753). The decimal minutes are then divided by 7, for how many days in a week number I got Nos 3.8 minutes perday for the change. For howelk was the same, making that the average.

Using the average (2843). Dividing the number of mins per day 11410 by (283), will give how many days ove in the year. Bekigeure mas 366.41 days.

Dates	Change in Rise Time		Change in Time Decimal Minutes	Change in Time Per Day in minutes/day
	Minutes	Seconds		
5/23-5/30	27	31	27.52	3.93 minutes/day
5/30-6/6	27	31	27 52	3.93 minutes day
66-613	27	31	27.52	3,03 minutes day
6/13-6/20	27	32	27.53	3.93 minutes day
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Project Pan 2 Graph Azimuth

Star Name	Azimuth	Altitude	Distance
Ainlam	120	29	1976.71 ly
Ainitak	120	29	817.43 ly
Bellatrix	117	37	252.44 ly
Beteigeuse	109	32	497.95 ly
Meissa	111	38	1055.52
Mintaka	121	31	916.17
Na'le of Salf	124	26	2329.69
PI3 Orionis	125	43	26.32
Rigel	130	27	862.85
Salph	124	21	647.14

Mythology

According to the mythology, Orion was a hunter who boasted about his skills. He claimed he could kill any beast with no problem. To show up Orion, a simall scorpion string him on his foot. Some say that this is how Orion dies.

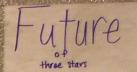
Other versions of the story claim that Orion weasn't stung, but was flewing the scorpion in the cean. There, he was spotted by Apollo. Apollo hated Orion so much for pursuing his sister Artemis that he bet her she could not hit the small object in the sea. Upon realizing what she had done, she put Orion's image in the heavens for everyone to see.

Source: http://www.dibonsmith.com/ori_con.ht

A Spatial Relationship

Regarding the distances of the stars in Orion, they are not close to each other in space.

The only two stars that could be considered close to each other are Ahritak (817.43 ly) and Rijal (802.85). These stars are still 45.42 light years away from each other. Another example would be of Pi3 and Naïr al Saïf. Pi3 has a distance of 26.32 ly, while the other has a distance of 2320.00 ly. This shows that even though they appear to be in the same region of space, they are quite a distance from each other.



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Orion



Artwork





