

THE SUN

In this activity you will investigate the changing location of the sun from sunrise to sunset at various times throughout the year. Review the data and complete the following tasks.

1. Determine the hours of daylight and darkness.
2. Use the circle below to mark the location (azimuth) of sunrise and sunset for each date. Label each point with the date, time and azimuth. A protractor will come in handy for transposing the sunrise and sunset azimuth(s) to the circle.

Date	Rise Time (am)	Rise Azimuth (deg)	Solar Noon Altitude (deg)	Solar Noon Azimuth (deg)	Set Time (pm)	Set Azimuth (deg)	Hours of Daylight (hh:mm)	Hours of Darkness (hh:mm)
3/21	5:48	90	48.5	180	5:51	270.9		
4/21	5:57	73.9	60.2	180	7:29	286.3		
5/21	5:20	62.0	68.3	180	7:57	297.9		
6/21	5:11	57.5	71.4	180	8:17	302.9		
7/21	5:29	61.7	68.3	180	8:07	298.0		
8/21	6:00	73.5	60.1	180	7:29	286.1		
9/21	6:33	89.1	48.3	180	6:37	270.9		
10/21	7:06	104.9	37.1	180	5:46	255.1		
11/21	6:45	117.4	28.6	180	4:10	242.3		
12/21	7:13	122.9	24.5	180	4:07	237.0		
1/21	7:11	117.7	28.2	180	4:35	242.3		
2/21	6:36	104.9	37.3	180	5:16	255.0		

