

# Sun's Path Notes and Summary

Insolation: \_\_\_\_\_  
 Solar Noon: \_\_\_\_\_  
 Duration: \_\_\_\_\_  
 Duration of Insolation: \_\_\_\_\_

Date	Name	Where the Sun is directly overhead at Solar Noon	Altitude of Sun at our location at Solar Noon	Length of Shadow at Our location	Duration of Insolation Our location	Duration of Insolation Equator	Duration of Insolation North Pole	Duration of Insolation South Pole
03/22								
06/22								
09/22								
12/22								

The sun rises in the \_\_\_\_\_ and sets in the \_\_\_\_\_. Therefore, at sunrise, one's shadow will point \_\_\_\_\_  
At sunset, one's shadow will point \_\_\_\_\_

At Solar Noon at our location, one's shadow will always point \_\_\_\_\_.

When will the sun be directly overhead at Solar Noon at our location? \_\_\_\_\_  
Why?

On what day of the year is the Sun lowest in the sky at Solar Noon? 03/22 06/22 09/22 12/22

On what day of the year is the Sun highest in the sky at Solar Noon? 03/22 06/22 09/22 12/22

On what day of the year is the angle of insolation greatest at our location? 03/22 06/22 09/22 12/22

On what day of the year is the angle of insolation least at our location? 03/22 06/22 09/22 12/22

On what day of the year is the duration of insolation greatest at our location? 03/22 06/22 09/22 12/22

On what day of the year is the duration of insolation least at our location? 03/22 06/22 09/22 12/22

On what day of the year will one have their longest shadow at Solar Noon in NY? 03/22 06/22 09/22 12/22

On what day of the year will one have their shortest shadow at Solar Noon in NY? 03/22 06/22 09/22 12/22

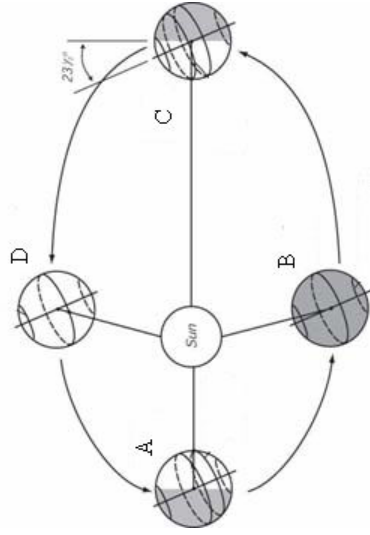
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When is the earth closest to the Sun? 03/22 06/22 09/22 12/22

When is the earth furthest from the Sun? 03/22 06/22 09/22 12/22

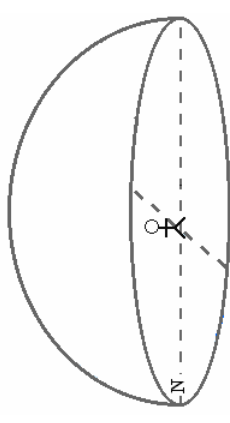
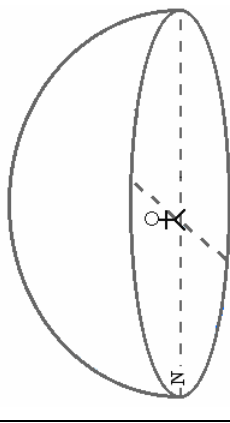
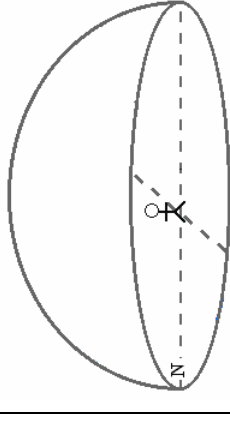
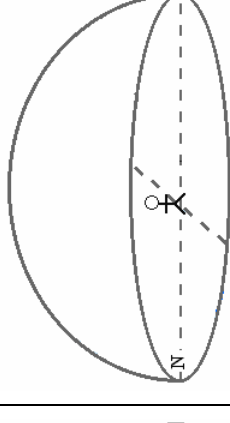
Why is it colder then during the winter?

What are the reasons for the seasons?



Date	Where the Sun is directly overhead	Altitude of Sun at Solar Noon at our location	Duration of Insolation at our location	Duration of Insolation at the North Pole	Duration of Insolation at the South Pole
A					
B					
C					
D					

### NY STATE PATH OF SUN

Spring	Summer	Fall	Winter
			

Draw the path of the Sun across the sky for each of the dates of the equinoxes and solstices for NY State.

