Name	Date	Class
The Sun-Eart	h-Moon System Notes	
Daily Motions		
•The most obvious pattern of motion is the and	daily rising and setting of the	
•They rise in the and set in the _		
•These daily motions result from Earth's	·	
Earth's Rotation		
•There are 2 simple ways to demonstrate the	hat Earth is rotating.	
1		
2		
Day Length		
•The time period from one noon to the nex	t is called the	<u>_</u> ·
•Our sys	tem is based on the solar day.	
•The length of a day as we observe it isrotate once on it's axis.	_ minutes longer than the time it tal	kes Earth to
Annual Motions		
•Earth orbits the sun in an	pattern	
•The plane of Earth's orbit is called the		
•Earth's axis is tilted degrees relat	ive to the ecliptic plane	
•Rotation vs revolution		
The Effects of Earth's tilt		
•Sometimes theh	emisphere is tilted toward the sun	
•6 months later the	hemisphere is tilted toward the sun	
•Reason for the seasons		
Solstice and Equinox		
Solstice		
•The sun is overhead at its	distance from the equator	

•	_ (maximum daylight) &	(shortest day)
Equinox "	<i>"</i>	
•Earth's axis is over the equator.		to the sun's rays and at noon the sun is directly
•	and	<u></u>
Solar Eclipse		
•Occurs when the _view.	passes directly be	etween the and Earth and blocks the sun from
	s tilted degrees relative sses the ecliptic plane. (p.7	e to the ecliptic planewe only see an eclipse (83)
•Solar Eclipses		
Annular Eclipses		
•The closest point in	n the Moon's orbit to Earth	is called the
•The furthest point	is called the	·
•When the moon is	near apogee, it will not	block the sun.
Lunar Eclipse		
•Occurs when the n	noon passes through the Ea	arth's
•Moon is faintly visi by the		assed near Earth has been filtered and refracted