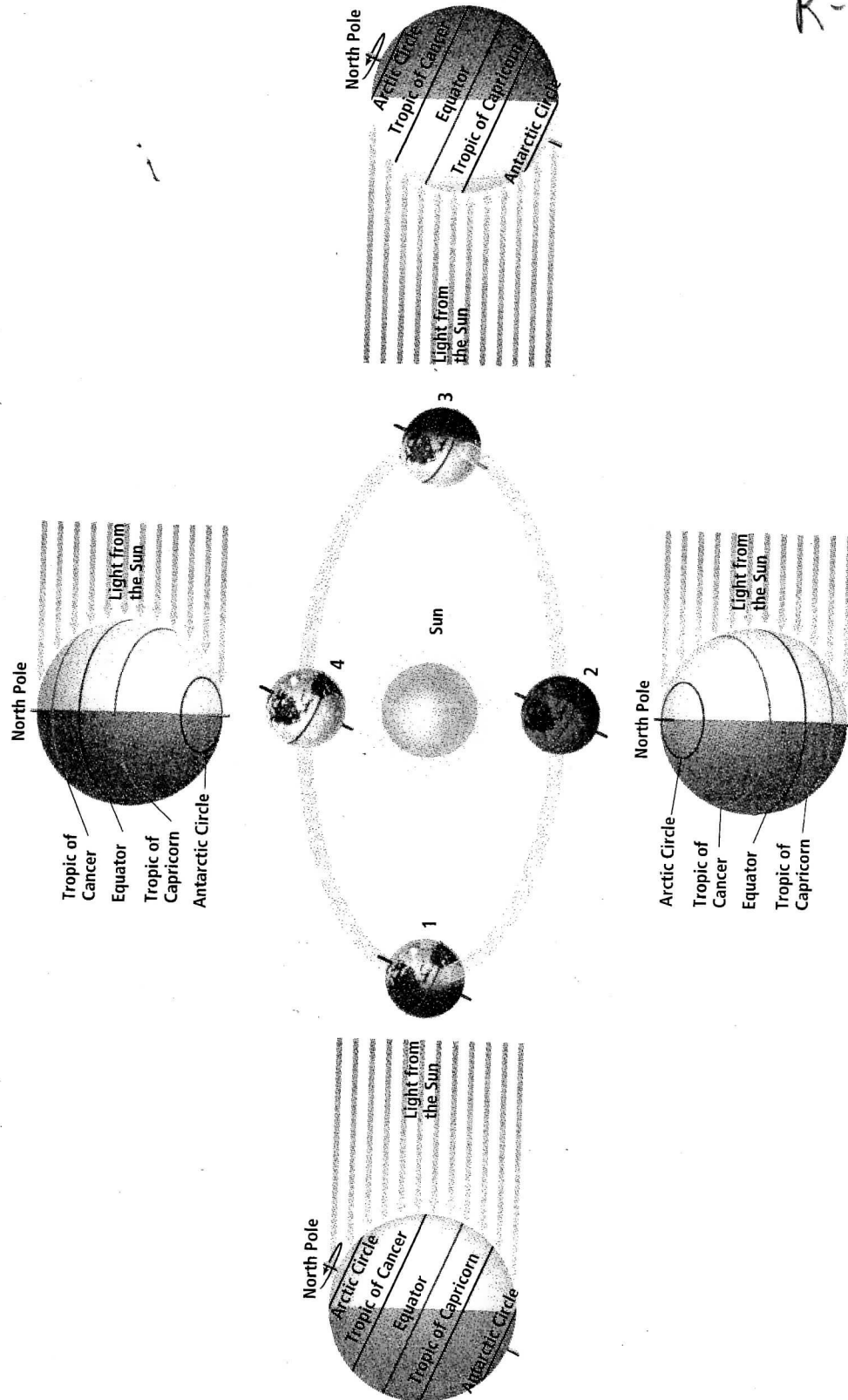


# The Solstices and Equinoxes

Use with Chapter 28  
Section 28.3

R-2011



Use with Chapter 28  
Section 28.3

R-2011

# The Solstices and Equinoxes

1. Which numbered position of Earth in its orbit around the Sun corresponds to the summer solstice in the northern hemisphere? At this time, where on Earth are the Sun's rays vertical? *→ Which latitude line ends in the middle of the Sun's rays? Being hit most directly by the sun?*  
\_\_\_\_\_
2. Describe the sunlight conditions within the arctic and antarctic circles during the summer solstice.  
\_\_\_\_\_  
\_\_\_\_\_
3. Which numbered position of Earth in its orbit around the Sun corresponds to the winter solstice in the northern hemisphere? At this time, where on Earth are the Sun's rays vertical?  
\_\_\_\_\_  
\_\_\_\_\_
4. Describe the sunlight conditions within the arctic and antarctic circles during the winter solstice.  
\_\_\_\_\_  
\_\_\_\_\_
5. Which numbered position of Earth in its orbit around the Sun corresponds to the autumnal equinox? At this time, where on Earth are the Sun's rays vertical?  
\_\_\_\_\_  
\_\_\_\_\_
6. Which numbered position of Earth in its orbit around the Sun corresponds to the vernal equinox? At this time, where on Earth are the Sun's rays vertical?  
\_\_\_\_\_  
\_\_\_\_\_
7. How do the number of daylight hours compare between the northern and southern hemispheres when Earth is in position 3? Position 4?  
*Position 3: In the northern hemisphere the daylight hours are \_\_\_\_\_ than in the southern.*  
*Position 4: In the northern hemisphere the daylight hours are \_\_\_\_\_ than in the southern.*