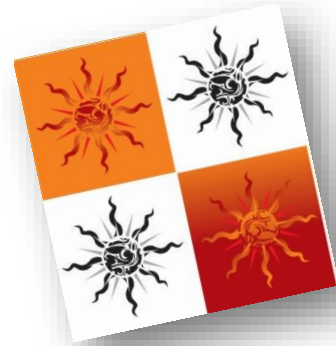


# Astronomy Unit 2

Name: \_\_\_\_\_

Period: \_\_\_\_\_ Date: \_\_\_\_\_

## Homework



- This homework is due at the end of the unit.
- Write the letter of the correct answer in the blank to the left of the question.

- \_\_\_\_\_ 1. The apparent path of the sun through the celestial sphere is called the...  
A. eclipse  
B. ecliptic  
C. ellipse
- \_\_\_\_\_ 2. The position of the noontime sun varies by \_\_\_\_\_ annually.  
A.  $23.5^\circ$   
B.  $47^\circ$   
C.  $0^\circ$
- \_\_\_\_\_ 3. The maximum annual variation of the position of the sun in the sky occurs during...  
A. the solstices.  
B. the equinoxes.
- \_\_\_\_\_ 4. You are more likely to hear people state, "The days are starting to get longer" near the time of the \_\_\_\_\_.  
A. vernal equinox  
B. autumnal equinox
- \_\_\_\_\_ 5. At a latitude of  $50^\circ$  north, the summer solstice noontime sun will be \_\_\_\_\_ above the horizon and \_\_\_\_\_ above the celestial equator.  
A.  $73.5^\circ$ ,  $23.5^\circ$   
B.  $63.5^\circ$ ,  $23.5^\circ$   
C.  $23.5^\circ$ ,  $23.5^\circ$   
D.  $23.5^\circ$ ,  $66.5^\circ$
- \_\_\_\_\_ 6. During the winter solstice, the sun will set \_\_\_\_\_.  
A. due west  
B. north of west  
C. south of west

- \_\_\_\_\_ 7. On the equator, the longest day(s) of the year is/are \_\_\_\_\_.  
A. the summer solstice.  
B. the equinoxes.  
C. the winter solstice.
- \_\_\_\_\_ 8. In Avon Lake on the winter solstice, the angle of the sun's incoming rays is \_\_\_\_\_, making the light the \_\_\_\_\_ direct of the year. Hence, it is cold.  
A.  $25^\circ$ , most  
B.  $72^\circ$ , most  
C.  $25^\circ$  least  
D.  $72^\circ$ , least
- \_\_\_\_\_ 9. During the winter solstice, Earth's northern hemisphere is tilted \_\_\_\_\_ the sun.  
A. toward  
B. away
- \_\_\_\_\_ 10. Earth moves slowest through its orbit at the time of \_\_\_\_\_, which occurs during \_\_\_\_\_.  
A. perihelion, winter  
B. perihelion, summer  
C. aphelion, winter  
D. aphelion, summer
- \_\_\_\_\_ 11. Earth will be in its perihelion position at a time when the sun appears to be \_\_\_\_\_ the celestial equator.  
A. above  
B. below