SCORE	
(5 pts max)	

ASTRONOMY 2 THIRD HOUR SESSION "I"	NAME	KEY-I			
ACTIVITY: Other Tools of Astronomy: Planispheres and Centerfolds	DATE		ID#		

Planispheres

1. The planisphere rotates about the _?_ which is approximately in the location of the star _?_.

North Celestial	Polaris
Pole	

2. When facing <u>north</u>, which way should you rotate the planisphere to correspond with the movement of the stars with increasing time?

Counterclockwise

3. The imaginary line that runs from the north point to the south point on the planisphere window is referred to as the _?_.

Meridian

4. On <u>December 15</u> at 12 midnight, facing south, what constellation is on the meridian and the celestial equator?

Orion

- 5. What time does the star <u>Capella</u> rise on <u>September 15</u>? 8:45 PM (± 20 minutes)
- What time does the star <u>Vega</u> transit on <u>May 15</u>?

3:00 AM (± 15 minutes)

- 7. What time does the star <u>Altair</u> set on <u>November 23</u>? 10:00 PM (± 20 minutes)
- 8. What date does the star <u>Procyon</u> rise at <u>10:00 pm</u>? November 10 (± 4 days)
- 9. What date does the star <u>Sirius</u> set at <u>Midnight</u>? Use South March 20 (± 5 days)
- 10. What star is rising on <u>February 10</u> at <u>10:00 pm</u>?

Arcturus

Centerfolds (Magazine Star Charts)

11. As the days progress into the future, a given sky configuration will remain the same in the planisphere window and magazine star charts for (earlier, the same, later) times.

Earlier

12. The star chart is centered on the _?_ and the outside edge corresponds to the _?_.

Zenith	Horizon

45

13. An object located halfway between the center and the edge of the star chart will be _?_ degrees above the horizon.

14. The times for using these star charts become earlier in the evening for dates later in the year. This is due to the revolution of the _?_ around the _?_.

							Earth				Sun
15.What	object	is	located	on	the	star	chart	at	coordin	ates	approximately
_0_degrees azimuth, and)_ de	grees	altituc	le?			

Polaris

Compare to Starry Nights

16. Answer question _5__ using *Starry Nights*. Note: *Starry Nights* should be set to Standard Time. Set time to 9 PM PST.

7:50 PM (± 4 minutes)

17. Using *Starry Nights*, change the location to <u>San Diego</u>. Now answer question 16 again. Note: *Starry Nights* should be set to Standard Time. Set time to 9 PM PST.

8:33 PM (± 4 minutes)

18. Is the planisphere result from question _5_ closer to the results from question 16 or to question 17?

17