

SCORE  
(5 pts max)

**ASTRONOMY 5  
THIRD HOUR SESSION "D"**

**ACTIVITY: Introduction to the *Sky Gazer's Almanac***

NAME

DATE

ID#

1. What time will \_\_\_\_\_ rise on \_\_\_\_\_?
2. What time does \_\_\_\_\_ set on \_\_\_\_\_?
3. On what date does \_\_\_\_\_ transit at \_\_\_\_\_?
4. What time does the Sun rise on \_\_\_\_\_?
5. What time does the Sun set on \_\_\_\_\_?
6. What time does evening twilight end on \_\_\_\_\_?
7. Is \_\_\_\_\_ above the horizon on \_\_\_\_\_ at midnight?
8. How many hours and minutes earlier does \_\_\_\_\_ rise between the dates of \_\_\_\_\_ and \_\_\_\_\_?
9. What date will the planet \_\_\_\_\_ next be located at opposition?
10. What day will celestial objects \_\_\_\_\_ and \_\_\_\_\_ be in conjunction with each other?

(Questions continue on back)

11. What day will celestial objects \_\_\_\_\_ and \_\_\_\_\_ be in opposite parts of the sky this year?

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12. The times given on the Almanac are given in local mean time (close to standard time for a Rocklin observer). If we were on daylight savings time, what time will our watches show for sunset on \_\_\_\_\_?

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13. Assuming that Rocklin is at a latitude of  $40^\circ$  north and a longitude of  $121^\circ$  west, how many minutes must the *Almanac's* local mean times be corrected to give the standard time on your watch for a given event? And are these minutes added or subtracted from the *Almanac's* local mean time?

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