

SCORE
(5 pts max)

ASTRONOMY 5
Bonus Activity
ACTIVITY: Planisphere and Constellation
Chart Problems

NAME

DATE

ID#

Use a planisphere and the SC001, SC002 Constellation Charts to solve five of the following problems. You may answer only one question from each of the following five categories and each correct answer is worth 1 point. Unless otherwise specified, all times are PST at a latitude of 40° N.

This bonus activity is due a week before the end of the semester, on the same day and time that the regular extra credit is due.

I. Given Time and Date, Determine Event

1. On May 7 at 8 PM, what bright star just set?

2. On March 3 at 11:15 PM, what bright star is crossing the meridian (transiting)?

3. On the date the Pleiades transits at noon, what two stars are setting at 10:05 PM?

II. Given Time and Event, Determine Date

4. Altair sets at 8 PM on what date?

5. Arcturus rises at 4 AM on what date?

6. Vega transits at Noon on what date?

III. Given Event and Date, Determine Time

7. What time does Aldebaran rise on the Autumnal Equinox?

8. What time does Spica transit on the Vernal Equinox?

9. What time does Antares set on the Summer Solstice?

IV. Coincidental Events Involving the Sun

10. On what date does Altair set at sunrise?

11. On what date does Sirius transit at sunset?

12. On what date will Spica rise at Noon?

V. Other Events Involving the Brain

13. On what date/s would Aldebaran rise shortly after Arcturus sets?

14. On what date could a full moon rise as Antares sets?

15. On what date could you see the both the Winter Triangle and the Summer Triangle at midnight?