

SCORE
(5 pts max)

ASTRONOMY 5
THIRD HOUR SESSION "F"
ACTIVITY: The Sun

NAME KEY - F

DATE

ID#

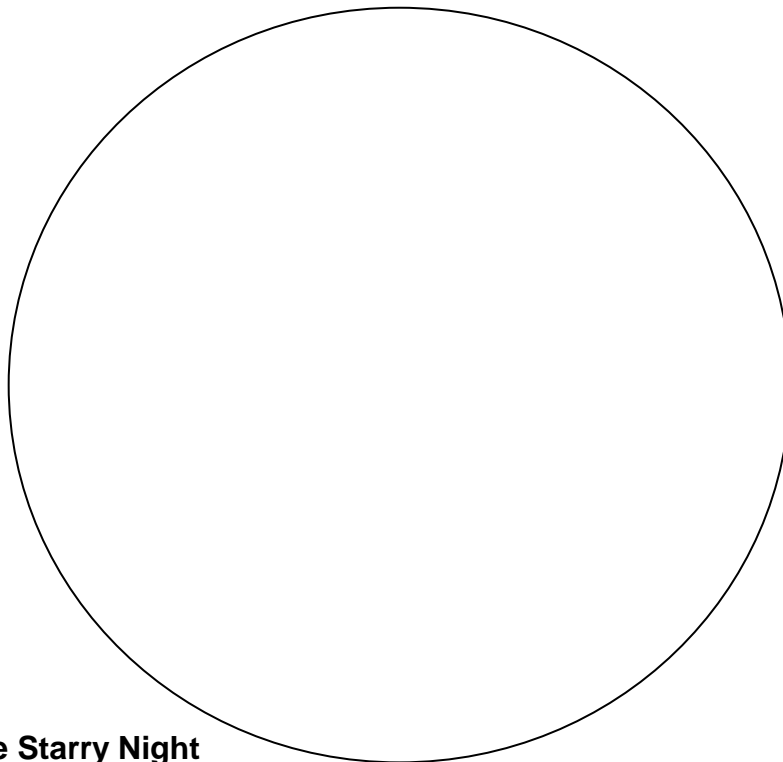
1. What is the visible part of the sun called?

Photosphere

2. What is the name of the white crown which surrounds the sun – often seen during a total solar eclipse?

Corona

3. Go to the website [__https://umbra.nascom.nasa.gov/newsite/images.html__](https://umbra.nascom.nasa.gov/newsite/images.html). Scroll down until you find the solar image labeled [__Intensitygram_](#). Make a sketch of the current sunspots below...



Question 4-8 use Starry Night

4. Go to Starry Night and set it for the Friday's date for 12 noon. When will the Sun set on Friday night and when will rise Saturday morning? Must set city to Sacramento first.

7:18 pm

7:10 am (± 2 min)

(Questions continue on back)

5. Using Starry Night again, what constellation is the Sun in for the date in Question 4?

Pisces

6. Using Starry Night again, what time for the date in Question 4 will the sun be at its highest altitude?

1:14 PM PDT

7. Using Starry Night again, set the clock to the time as determined in the previous problem. What is the altitude and azimuth of the Sun (to the nearest degree)?

49	180
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8. Using Starry Night again, now set the date to June 30 and the time to noon. What time does the sun reach its maximum altitude on this day? Is this time the same as in Question 6 (to within a minute)?

1:09 PM PDT	no
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9. Now go the web site https://eclipsewise.com/eclipse.html#SElinks. When is the next total solar eclipse that passes through the US? Will the path of totality pass through California?

April 8, 2024	no
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10. Now go to the website https://en.wikipedia.org/wiki/Sun. What's the 3rd most common gas in the Sun?

Oxygen

11. On the same website, what is the temperature of the layer that is asked about in Number 1?

5778 K (About 6000 K is OK)

12. On the same website, find another interesting fact about the sun

Many answers are possible here.