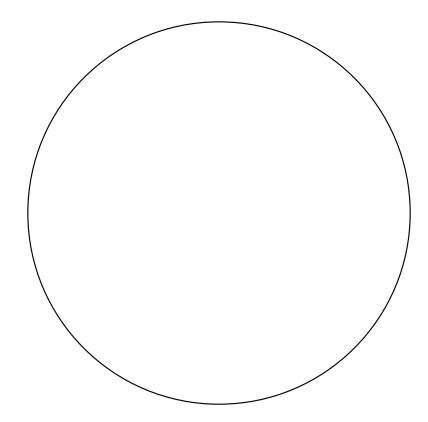
Name:	NetID:
Date of S	Session:
	Astronomy 150: Solar Observing Session Report  urpose: To observe the surface features of the Sun using a telescope.  That NOT to do when you go:  Do not look at the Sun with your eyes directly! You can damage your eyes if you look at the Sun directly.  That to do when you go:  Attend a daytime observing session and complete this worksheet. The sessions schedule is listed the website!, which you should check to see if the solar observations will be held or not. When u arrive, enter the observatory through the north door facing Smith Music Hall. Observing will ke place upstairs in the Observatory Dome using specially-designed filters that block 99.999% of e sunlight and make it safe to observe the Sun. Astronomy Department personnel will be present operate and explain the telescope and the solar phenomena being viewed. Freely ask questions at sketch what you see.  ule: You may ask the instructor for assistance with answering questions or discuss the questions the your classmates, but you must write your own responses in your own words.  1. (a) What is the date and local time of your observations?
Purpose:	To observe the surface features of the Sun using a telescope.
What NO	T to do when you go:
What to d	do when you go:
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1. (a) W	That is the date and local time of your observations?
(b) W	That are the sky conditions (e.g., clear, partly cloudy)?
2. What	is the Sun's location (e.g., N, S, E, W) relative to the zenith, the point directly overhead
	high is the Sun in the sky from the horizon? Measure in degrees where a fist at arm h is about 10 degrees?

<sup>&</sup>lt;sup>1</sup>http://www.astro.illinois.edu/academics/courses/solarobs/

4. On the circle below draw and label the surface features that you observe on the Sun.



5. Briefly explain the causes of the surface features you observed. What is happening on the Sun to create these features?

6. As you look at the outermost part ("limb") of the Sun, do you see a relatively sharp edge, or a relatively diffuse and gradual transition to darkness? Briefly explain why.

7. Is the brightness uniform across the solar disk? Why or why not?