

Name: \_\_\_\_\_

Date of Session: \_\_\_\_\_

## Astronomy 210: Day Time Observations of the Sun

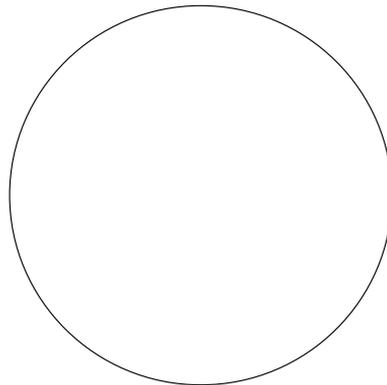
**What to do when you go:** Attend a daytime observing session and complete this lab worksheet. Get an instructor's signature at the end of the session before you leave:



An instructor will review the types of features you may see on the solar surface and will assist you in observing the Sun with a telescope. Read the questions below before you start observing and *answer them as you progress* through the lab. Ask the instructor for assistance with answering questions. *Answers in this report should be in your own words. You may discuss the questions with your classmates and the instructors, but you must write your own responses in your own words.*

You may continue your answers on the back of the form if need be.

1. On the circle below draw and label the surface features that you observe on the Sun. Some may be transient, in which case also add the length of time the feature was present.



2. 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? Explain why. Ask the instructor about the effect of chromatic aberration.
3. Is the brightness uniform across the solar disk? Why or why not?

**After you go:** Write a brief paragraph about the Sun as seen through a telescope. For each surface feature that you observed on the Sun describe the physical mechanism causing that feature. *For this question only*, your answer should be typed on a separate page. This part of the report is not collaborative and should be written *in your own words*.