

Name _____ Name _____

Class _____

Name _____ Name _____

Date _____

Lab Report – The Sun

I. Activity 1

Date taken on: _____ Length of Wedge: _____ mm

Time	Azimuth (° from N)	Shadow length (mm)	Altitude (°)

II. Activity 2

Data Taken on: August 3, 1997

Length of Wedge: 76 mm

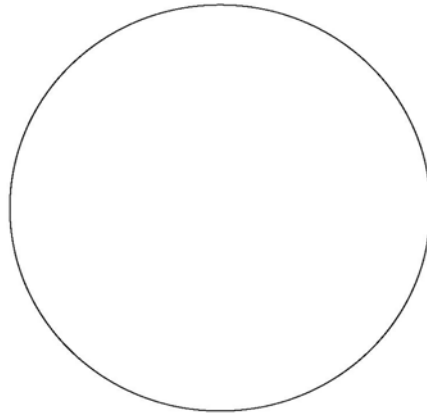
Time	Azimuth (° from N)	Shadow length (mm)	Altitude (°)
7:30 a.m.	85	225	
8:40 a.m.	90	140	
9:35 a.m.	100		40.2
10:45 am	107.5		51.7
12:00 noon	120	37	
13:00 p.m.	135	28	
13:45 p.m.	150	29	
14:30 p.m.	165		65.3
15:45 p.m.	192		53.1
17:30 p.m.	215	109	
18:00 p.m.	225	143	
18:45 p.m.	240	215	

MAKE SURE TO ATTACH YOUR GRAPHS

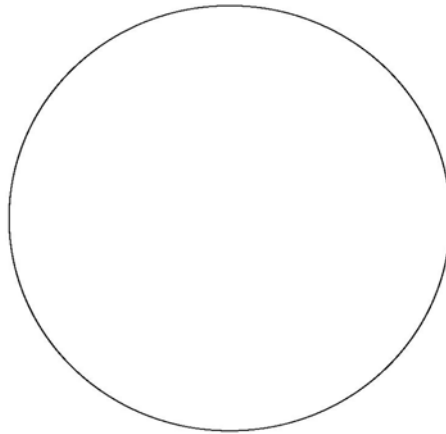
III. Activity 3

1. How many spots do you see? Are there any groups of spots? How many spots are in a group?

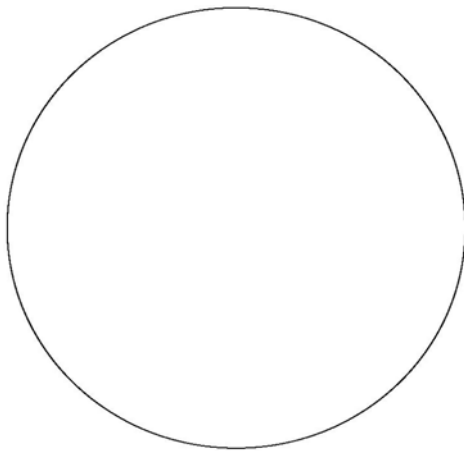
2. In the following circle provided sketch the sunspots you see in this freehand sketching activity.



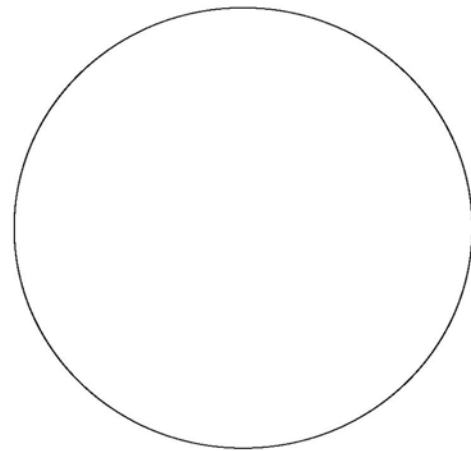
3. Record the sun's motion. Pick an easily seen spot near the edge the sun on the side towards which the image is moving. It is best to draw these as faint circles every five seconds or so around the moving spot. Four circles are enough to indicate clearly the direction that the image is moving.



4. Using the computer go to: http://galileo.rice.edu/sci/observations/sunspot_drawings.html and copy Galileo's drawing of the Sun on June 5 and June 28, 1613. How do the drawings compare, how do they differ both from yours and each other? Why do you suppose this is?



June 5, 1613

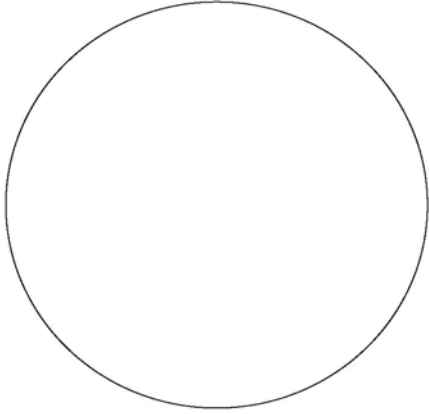


June 28, 1613

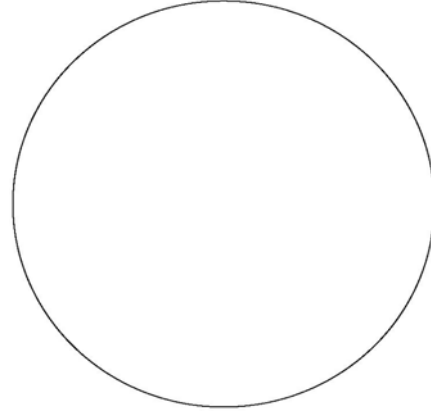
IV. Activity 4 (Planetarium Activity)

In the spaces provided Sketch your observations based on what your instructor shows you in the planetarium. Make sure to indicate in the space provided the date and time you are observing.

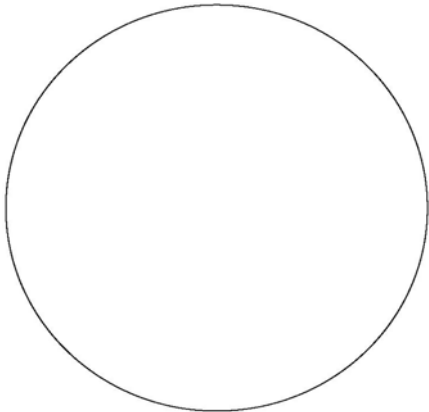
Date: _____ Time: _____



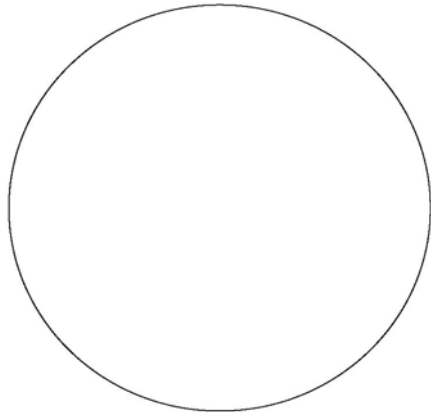
Date: _____ Time: _____



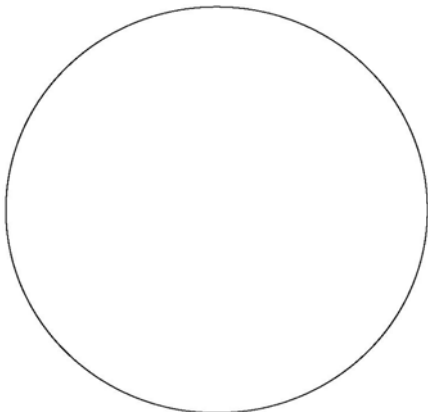
Date: _____ Time: _____



Date: _____ Time: _____



Date: _____ Time: _____



Date: _____ Time: _____

