

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

Period: \_\_\_\_\_ Date: \_\_\_\_\_

# ~ ASTRONOMY UNIT 1 ~

## OUTDOOR ASTRONOMY LAB

**Part One:** Diurnal motion (north)

Name of constellation:

Observation	Time
1	
2	
3	

1. Face north at night on a dark, clear night. On the diagram above, sketch the location of Ursa Major, Ursa Minor, or Cassiopeia. Note the time in the data table. (Note: When you're done, go on to question one for part two on the reverse side.)

2. At least one hour later, repeat step one *in a different color*. Be sure to match the color with the observation number. The locations of the constellations should be different. (Note: When you're done, go on to question two for part two on the reverse side.)

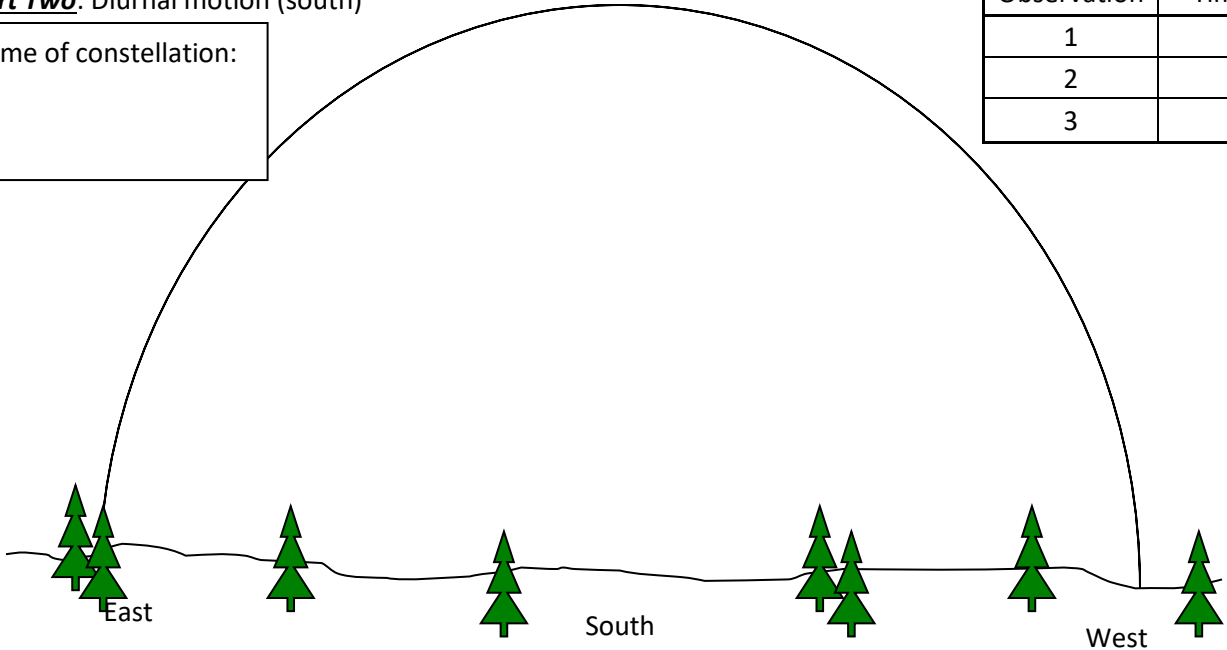
3. Repeat again *in a different color* at least one more hour later. Be sure to match the color with the observation number. (Again, when you're done, go on to question three for part two on the reverse side.)

4. Analysis: What did you observe about the motion of the circumpolar stars?

**Part Two:** Diurnal motion (south)

Name of constellation:

Observation	Time
1	
2	
3	



1. Face south at night on a dark, clear night. On the diagram above, sketch the location of a constellation you see near the east. Note the time in the data table and write the name of the constellation.
2. At least one hour later, repeat step one *in a different color*. The location of the constellation should be different. (Be sure to match the color with the observation number.)
3. Repeat again *in a different color* at least one more hour later. Be sure to match the color with the observation number.
4. Analysis: What did you observe about the motion of the seasonal stars?

Criteria	Points Possible	Points Earned
Part One: Shows correct progression of constellation's movement	4	
Part One: Chooses a correct constellation and clearly matches sketch with observation number	2	
Part One: Observations taken at correct time spacing	1	
Part One: Correct analysis	3	
Part Two: shows correct progression of constellation's movement	4	
Part Two: Chooses a correct constellation and clearly matches sketch with observation number	2	
Part Two: Observations taken at correct time spacing	1	
Part Two: Corect Analysis	3	
<b>Total</b>	20	