

# AST 101

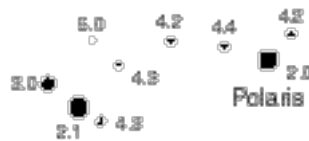
## Observing Session Worksheet

October 15, 16, 2010

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

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

- ☐ Take a moment to let your eyes adapt to the surroundings. Look at the sky more carefully and describe what you see. In particular comment on clarity (e.g. clear, cloudy, hazy), darkness, steadiness of the air (amount of star twinkling):
  
- ☐ Identify the following stars and planet using the planisphere or October star map, if needed: Vega, Deneb, Altair, Capella, Aldebaran (if visible), Arcturus, (if visible), Jupiter. If you have difficulty, ask for help.
  
- ☐ Identify the following constellations using planisphere or star map, as needed: Summer Triangle, Sagittarius, Auriga, Bootes (if visible), Cassiopeia, Great Square of Pegasus, Big Dipper.
  
- ☐ Identify Polaris and pick out as many of the Little Dipper stars as you can. Use the following chart to determine "limiting magnitude" by circling the faintest star you can clearly see.



The number beside each star indicates its magnitude.

- ☐ Carefully gaze at the brighter stars Vega and Capella and look for a hint of color. Try it with binoculars, if available. Describe any color you see, with or without binoculars:
  
- ☐ Look at the star Albireo through a telescope. Describe what you see:
  
- ☐ Look at Jupiter through a telescope. Sketch the planet and any moons visible: (Ask for assistance to find Uranus, if interested.)
  
- ☐ Sketch the shape (phase) of the Moon:
  
- ☐ Look at the Moon through a telescope. Describe what you see: