Astronomy:	Solar System Unit 1 Homework Chapter 1-4
Name	Date

Write or preferably type out your answers to each question on separate paper. Answer each question in a complete sentence that implies the original question asked. You may submit your homework by email with a computer (use your cougar email account please) and send to the following address: <a href="mailto:mbroyles@cccd.edu">mbroyles@cccd.edu</a> Always save an electronic copy in case the original is lost.

- 1. Define or explain the following concepts:
- a. constellation
- b. celestial coordinates
- c. synodic vs. sidereal day and month
- d. rotation vs. revolution
- e. triangulation and parallax
- 2. Describe and list the contributions of the following people:
- a. Erathosphenes
- b. Ptolemy
- c. Copernicus
- d. Brahe
- e. Kepler
- f. Galileo
- g. Newton
- 3. Explain how Galileo's observations supported the heliocentric model.
- 4. What was the significance of discovering the aberration of starlight?
- 5. How did the model of Ptolemy explain retrograde motion?
- 6. What is meant by the term "spectral window"?
- 7. In what way is the Doppler effect useful in astronomy?
- 8. Briefly list and discuss Kirchhoff's laws.
- 9. How do astronomers analyze starlight?
- 10. What is rotational broadening and what information do this study give astronomers?