

Telescopes; Earth & Other Terrestrial Planets

DUE: Q 13-16 – Friday, September 25 by 5pm in my office mailbox (NSC 140)

Q 17-20 – Friday, October 2 by 5pm in my office mailbox (NSC 140)

Q 1-12 – Friday, October 2 by 5pm online

READ: Chapters 5.3, 6, 7

HOMEWORK:

Answer questions 1-12 on-line at the MasteringAstronomy website.

Answer questions 13-19 on a separate sheet; **sign the honor code in full at the end.**

AUTHORIZED AIDE: You are to do your own work on this assignment. You may refer to your textbook. If you have difficulty with a question, you may discuss it with me or with another student, but you must write your own answer, in your own words.

TO DO ON-LINE

1. Telescopes (3 points)
2. Text 5-35 (light gathering power) (1 point)
3. Matter in SS (2 points)
4. Formation of planets (2 points)
5. Comparative planetology (2 points)
6. Atmospheric pressure (1 point)
7. Tectonic activity (1 point)
8. Greenhouse effect (1 point)
9. Geological processes (2 points)
10. Terrestrial planetary atmospheres (2 points)
11. Surface features of Mars (1 point)
12. Visual quiz (3 points)

TO HAND IN (show your work or describe your reasoning)

13. Text 5-12 (properties of the telescope) (2 points)
14. Text 6-3 (SS formation clues) (2 points)
15. Text 6-8 (3 points)
16. Discuss the nebular theory for the formation of the solar system including the formation of the planets. (3 points)
17. Text 7-5 (geological processes) (2 points)
18. Text 7-12 (Earth and Mars) (3 points)
19. Text 7-14 (water on Mars) (2 points)
20. Text 7-8 (Greenhouse effect; include a diagram) (3 points)

In chapters 6 and 7, the “Surprising Discoveries” and “Quick Quiz” sections are good study tools and reviews. I recommend that you look over these, perhaps with a partner or in a study group (if we don’t review them in class).

Tutorial Session (with tutor): Thursday, Sep 24 and Oct 1, 7:00-8:00 pm in NSC 119

Help Session (with Prof. Hrivnak): Tuesday, Sep 22 and 29, 4:30-5:30 pm in NSC 119

Office Hour (with Prof. Hrivnak): Wed 10-11 am, Wed 2-3 pm, Fri 10-11 am in NSC 140