

ASTR 220 Homework #2

Fall 2005

Due Tuesday, February 15, 2005, *at the beginning of lecture.*

Class will meet in CSS 1109 for the Cratering Experiment on February 15, 2005.

Please neatly write or type your homework.

Be aware of potential plagiarism: make sure to put the answer into your own words. Feel free to discuss the questions with your classmates, but write up the answers yourself - do not copy.

Make sure to show your work for any calculations - answers that appear like magic will receive no credit.

1. *ECP*: Ch. 6, Review Questions, #11.
2. *ECP*: Ch. 6, Surprising Discoveries, #18.
3. *ECP*: Ch. 6, Surprising Discoveries, #19.
4. *ECP*: Ch. 6, Problems, #25.
5. *ECP*: Ch. 9, Surprising Discoveries, #16.
6. *ECP*: Ch. 9, Surprising Discoveries, #17.
7. *NCC*: What were the craters on the Moon and the Earth originally thought to be?
8. *NCC*: Explain why a good scientific theory must be able to be disproven.
9. *NCC*: In Ch. 4, why did the author split the Alvarez theory into two separate hypotheses, and what were those hypotheses?
10. *NCC*: In Ch. 4, six basic predictions were made (the seventh is about “unanticipated discoveries”, so we won’t consider that one).
 - (a) Which two predictions do you think were best supported by subsequent scientific discoveries and analyses? Why?
 - (b) Which two predictions do you think were the least supported? Why?