

**Motion & Gravity**

**DUE:** Thursday, September 17  
Q 7-8 - due by noon in my office mailbox (NSC 140) or by email  
Q 1-6 - due online by 6 pm

**READ:** Chapters 4

**HOMEWORK:**

Answer questions 1-6 on-line at the MasteringAstronomy website.  
Answer questions 7-8 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. Gravity & Newton (4 points)
2. Weight on a moving elevator (4 points)
3. Text 4-27 (acceleration) (2 points)
4. Text 4-30 (gravity in space) (2 points)
5. Text 4-32 (Earth's angular momentum) (1 points)
6. Text 4-34 (gravity) (1 points)

**TO HAND IN**

7. Text 4-46 (Newton-Kepler's third law) (3 points)
8. Text 4-47 (Newton-Kepler's third law) (2 points)

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**Help Session :** Tuesday, Sep 15, 4:30-5:30 pm in NSC 119

**TEST 1:** Friday, Sept. 15. It will cover chapters 1 – 5 (except 5.3), and consist of short-answer and multiple-choice questions. (You are all expected to be there for the test. A make-up exam will not be given except under very special circumstances when I think that an absence is excusable. If this is the case, please see me as soon as possible and be prepared to furnish documentation of the excuse.)

**Test Help/Review:** I will conduct a help/review session on Thursday, Sep 17, 7:00-8:00 pm in NSC 119. The answer keys for Assignments 2, 3, 4 hand-in questions will be posted on the bulletin board across from NSC 141.