

195 - Final		Any variation of Questions and Problems
1	Written Response 12 points <i>Using words, diagrams and equations,</i>	<i>You need to fully explain, use diagrams, use formulas. Use an example. Practice these answers.</i> Ch 4: What is projectile motion. Use my section 3.3 on the web (A Most Awesome Explanation). Ch 5: Explain Static and Kinetic Friction using the graph provided online. Ch 6: Show how the Physicists helped the Geologists understand the true nature of the density of the earth. Show the calculations. What did we learn about the earth from Newton's Univ. Law of Gravitation.
2	Written Response 12 points <i>Using words, diagrams and equations</i>	<i>You need to fully explain, use diagrams, use formulas. Practice these answers.</i> Ch 9: Explain the two types of collisions? How do we solve these types of problems? Ch 10: Show how one can derive the KE of a rotational system from the KE of a linear system.. I showed you this in lecture. How are these two quantities analogous? You always need a diagram! Ch 11: Derive equation 11.16. How is this eq. analogous to eq 5.2? You will always need diagrams!
3	Quick Quiz 8 points	<p>These Quick Quiz questions will show up on the Final You will need to provide explanations for your choices.</p> <p>Ch2: 3 - Ch4: 7 - Ch5: 6 - Ch6: 6 - Ch7: 5 Ch8: 7 - Ch9: 7 - Ch10: 5 - Ch11: 6</p>
4	Quick Quiz 8 points	
5	Quick Quiz 8 points	
6	Basic Prob 8 points	
7	Basic Prob 8 points	
8	Basic Prob 8 points	<p>These Basic Physics Problems will show up on the Final. You will need to show your work.</p> <p>Ch4: 19 - Ch5: 37 - Ch6: 19 - Ch7: 18 - Ch8: 36 Ch9: 24 - Ch10: 31 - Ch11: 11 - Ch12: 23 – Ch 15: 12</p>
9	DRS Two problems 48 points	Ch4: 61- Ch6: 65 - Ch8: 60 - Ch12: 23

Final Test Date – Tuesday 5/13/08 at 1:00-3:00 pm

You will **randomly** receive one of three versions of the test above. You cannot have any notes. There are two questions (1 and 2) that require you to write a complete and concise explanation along with an appropriate diagram and mathematical logic (equations). Practice these questions. Write your answer out. Do not use paragraphs. Use bullets or steps. Pretend that you are to provide an explanation to the class.

There are 3 multiple-choice questions which require a correct and **brief explanation** as to why you chose your answer. There are also 3 basic problems that require you to show some of your work. These are not easy or simple problems. Basic means that you are capable and prepared to solve these problems.

Problem 9 requires that you show a complete diagram, clear reasoning and a correct solution. Practice drawing your diagram. Diagrams are important. They demonstrate your knowledge and understanding of the problem. They are not for show. You will have 120 minutes.

NO programmable calculators.