

PES 1000 –Physics in Everyday Life – At-Home Problem Set
UNIT 2: (Chapters 7 – 10) Momentum, Rotation, Fluids, Heat
(Griffith 'The Physics of Everyday Life' 8th.ed.)

There will be three options available to evaluate your understanding of this unit. The traditional exam portion is required for everyone, but if other work is provided showing understanding, it will count as extra credit added to the traditional exam percentage.

Option A: **Traditional Exam** only (Exam comprises 100% of evaluation)

Option B: **Traditional Exam and either at-home problem set OR essay** (Grade is exam percentage plus up to 10 percentage points based on score received on additional set or essay)

Option C: **Traditional Exam and BOTH at-home problem set AND essay** (Grade is exam percentage plus up to 20 percentage points based on score received on additional set and essay)

Traditional Exam information

- Multiple choice exam given on exam day
- Approximately 50 questions
- Green Scantron form (available at the bookstore) 25+25 count
- Will cover conceptual understanding
 - Definitions (including statement of important laws)
 - SI units for quantities discussed in class
 - Qualitative relationships between physical quantities
 - Equation list provided on last page of exam
 - Applications to everyday experiences
- No calculations required

Essay information

- Essay done at home, due on exam day
- Clear and technical discussion of concepts studied
- 5-paragraph form
 - Introduction
 - Discussion of 3 or more principles in one chapter
 - Discussion of 3 or more principles in a different chapter
 - Discussion of 3 or more principles in yet a different chapter
 - Conclusion
- Neatness required, typing preferred
- Style and fluency expected
- Rubric provided
- Score will be computed as a percentage out of 60. Percentage * 10 points will be added to exam grade.

At-home problem set information

- Questions and exercises from the book, done at home, due on exam day
- Full credit for correct answers, ½ credit for attempting with correct formulae
- Choose any combination of questions and exercises. Score will be computed as a percentage out of 40. Percentage * 10 points will be added to exam grade.