

TEXT – Prentice Hall Conceptual Physics - Chapters 15, 16, 39, 40

DUE THURSDAY, MAY 30 FOR SENIORS, and DUE WEDNESDAY JUNE 5th FOR NON-SENIORS.

1. **WRITE YOUR NAME**, first and last name, on top of this cover sheet.
2. **COMPLETE ALL THE WORK** as assigned.
3. **BOTH THE STUDENT AND A PARENT MUST SIGN** here before turning in.
4. **COVER SHEET**: Put this cover sheet on top of the work when you turn it in.
5. **THE EXPECTATION IS THAT**: You will turn in your work in the order shown.
6. **TURN IN THIS WORK ON TIME** to your supervising teacher.

Student Signature**Date**

Parent Signature**Date***I have completed the monthly work as required.**I have checked my student's work for completeness.*

Chapter 15 – Special Relativity: Space and Time

- 1) Define the first **and** second postulates of special relativity.
- 2) Chapter Review - #1, 2, 4, 5, 7, 14
- 3) Think and Explain - #19, 24, 25

Chapter 16 – Special Relativity: Length, Momentum, and Energy

- 4) Chapter Review - #1-3, 6, 8, 10, 12, 18
- 5) Think and Explain - #21, 22, 28

Chapter 39 - The Atomic Nucleus and Radioactivity

- 6) Chapter Review - #1-5, 12, 18, 20, 21, 25
- 7) Draw and label Figure 39.7, p. 611.

Chapter 40 – Nuclear Fission and Fusion

- 8) Chapter Review – #1-5, 8-10, 12, 18, 20, 25.
- 9) Think and Explain - #26, 29.
- 10) Draw and label a simplified diagram of a uranium fission bomb, p. 632.
- 11) Include your Invention or Helpful Hacks.
- 12) Engineering Inventions that changed our world list with your notes.