

TEXT – Prentice Hall Conceptual Physics - Chapters 35, 36, 37, 38

Due 5/17/19

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.
7. **Students must submit at least two lab works/report for Month 9.**

Student Signature

Date

Parent Signature

Date*I have completed the monthly work as required.**I have checked my student's work for completeness.***Chapter 35 – Electric Circuits**

- 1) Define: circuit, in parallel, in series, parallel circuit, series circuit
- 2) Chapter Review #1-2, 4-15
- 3) Think and Explain #18-24
- 4) Think and Solve #31, 33

Chapter 36- Magnetism

- 5) Define: electromagnet, magnetic domain, magnetic field, and magnetic pole
- 6) Chapter Review #1-3, 5, 7-9, 12-14, 18-20
- 7) Think and Explain #21-22, 24-25, 28-29, 31, 32
- 8) Summarize Maglev Transportation p. 569

Chapter 37- Electromagnetic Induction

- 9) Define: electromagnetic induction, Faraday's law, generator, and transformer
- 10) Chapter Review #1-3, 7-16, 19-22
- 11) Think and Explain #23-31, 33, 34, 37, 38
- 12) Think and Solve #40-42
- 13) Summarize Metal Detectors, p. 582

Chapter 38 – The Atom and the Quantum

- 14) Define: photoelectric effect, photon, Planck's constant, quanta (singular quantum), quantum mechanics, quantum physics
- 15) Chapter Review #1-2, 5, 7-10, 12-15, 17, 20
- 16) Think and Explain #21, 23-26, 28, 30
- 17) Draw and label Figure 38.3 and 38.4, pp. 597 and 598.

Get Ready For Your Invention or 2 Hacks Due In Class May 23

See the Mt. Everest Website, Norm Negus – Physics for Details

4/25/19 – Electric Circuits and Magnetism Lab + Notes

5/2/19 – Electromagnetic Induction Lab + Notes

5/9/19 – Nuclear Fission Lab + Notes