

TEXT – Prentice Hall Conceptual Physics - Chapters 31, 32, 33, 34

Due 4/19/19

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 below.
6. **TURN IN THIS WORK ON TIME** to your supervising teacher.
7. **Students must submit at least two lab works/report for Month 8.**

Student Signature*I have completed the monthly work as required.*

Date

Parent Signature*I have checked my student's work to ensure it is complete.*

Date**Chapter 31 – Diffraction and Interference**

- 1) Define coherent, diffraction, hologram, incoherent, iridescence, laser, monochromatic
- 2) Review Questions - #2-6, 9-10,16
- 3) Think and Explain - #22-23, 25-26

Chapter 32 - Electrostatics

- 4) Define charge, conductor, conservation of energy, coulomb, Coulomb's law, electrical force, electrically polarized, electrostatics, grounding, induced, induction, insulator, semiconductor, superconductor
- 5) Chapter Review - #1-14, 16, 17, 20-22, 25
- 6) Think and Explain – #26-30, 32-36

Chapter 33 - Electric Fields and Potential

- 7) Define: capacitor, electric field, electric potential, electrical potential energy, volt, voltage
- 8) Chapter Review - #1-10, 13, 16, 19
- 9) Think and Explain - #21-22, 24-25, 30

Chapter 34- Electric Current

- 10) Define: alternating current, ampere, diode, direct current, electric power, electric resistance, ohm, Ohm's law, potential difference, voltage source
- 11) Chapter Review – #1-4, 8-9, 11, 13-18, 21, 25
- 12) Plug and Chug - #28, 30, 32, 33
- 13) Think and Explain - #34-42
- 14) Think and Solve - #46, 48

Electrical Labs and Demonstrations and Calculations

- 15) 4/4/19 - Electricity Lab 1
- 16) 4/11/19 - Electricity Lab 2