

TEXT – Prentice Hall Conceptual Physics - Chapters 27, 28, 29, 30

Due 3/20/2020

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 7.**

Student Signature

Date

Parent Signature

Date

I have completed the monthly work as required.

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

Chapter 27 – Light

20%

- 1) Define: electromagnetic spectrum, electromagnetic wave, infrared, light-year, opaque, penumbra, photon, polarization, transparent, ultraviolet, umbra.
- 2) Chapter Review - #1 b., 4-8, 11, 14, 16, 17, 19b., 20, 21
- 3) Think and Explain - #24, 33, 35

Chapter 28 – Color

20%

- 4) Define: additive primary colors, complementary colors, line spectrum, pigment, scatter, spectroscope, spectrum, subtractive primary colors, white light.
- 5) Chapter Review – #1-6, 8-13, 15, 18-22, 25
- 6) Think and Explain - #26-29, 32, 33, 35, 37, 39, 42, 43
- 7) What is the difference between: incandescent light, fluorescent light and an LED light?

Chapter 29 – Reflection and Refraction

20%

- 8) Define: angle of incidence, angle of reflection, critical angle, diffuse reflection, dispersion, law of reflection, mirage, normal, optical fiber, reflection, refraction, reverberation, total internal reflection, virtual image, wave front.
- 9) Chapter Review #1-4, 6-8, 10, 11, 13-26
- 10) Think and Explain: #28-30, 33, 35
- 11) Think and Solve #39-41

Chapter 30 – Lenses

20%

- 12) Define: aberration, converging lens, cornea, diverging lens, focal length, focal plane, focal point, iris, lens, pupil, real image, retina
- 13) Chapter Review - #8-13
- 14) Think and Explain - #15-17, 20-23

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|-----------|---|--------------------------------|-----|
| 2/27/2020 | - | Color Lab and Mirror Lab | 20% |
| 3/5/2020 | - | Light Lab and Spectroscope Lab | |
| 3/12/2020 | - | Review for M7 Test | |