

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

Due 3/22/19

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 7.**

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

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**Parent Signature***I have checked my student's work to ensure it is complete.***Date****Chapter 27 – Light**

- 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**

- 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**

- 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**

- 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

- 2/28/19            -    Color Lab and Mirror Lab  
3/7/19             -    Light Lab and Spectroscope Lab  
3/14/19           -    Review for M7 Test