

TEXT – Prentice Hall Conceptual Physics - Chapters 13, 14, 21, 22

Due 1/24/20

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 5.**

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 13 – Gravitational Interaction**

- 1) Define: black hole, force field, gravitational field, lunar eclipse, neap tide, solar eclipse, spring tide, weightlessness.
- 2) Chapter Review – # 1, 3, 4, 5, 9, 13, 15
- 3) Think and Explain - #25, 28, 30, 35

Chapter 14 – Satellite Motion

- 4) Define: apogee, ellipse, escape speed, focus, perigee, period
- 5) Chapter Review - # 1, 3, 4, 5, 7, 8, 11, 13, 14
- 6) Think and Explain - #20, 21, 22, 27

Chapter 21 – Temperature, Heat, and Expansion

- 7) Define: absolute zero, Celsius scale, Fahrenheit scale, Heat, Temperature, Thermostat.
- 8) Chapter Review - #2, 3, 4, 7
- 9) Think and Explain - #25, 26, 33, 34

Chapter 22 – Heat Transfer

- 10) Define: Conduction, convection, radiation, greenhouse effect, Newton's law of cooling.
- 11) Chapter Review - #1, 2, 4, 6, 7, 9--13,18
- 12) Think and Explain #22, 23

Your 3-panel Semester Independent Science Project display board and separate write up are due at the latest in the Auditorium/Cafeteria Jan. 24, 2020, on a table space reserved for you, and the combination is 20% of your Semester Grade. Guidelines for the Project Write Up can be found on the Mt. Everest Website under Teachers, Mr. Negus. TURN IN A COPY OF ALL YOUR PROJECT WRITTEN WORK SO FAR BETWEEN JANUARY 9th-15th SO I CAN HELP ADVISE YOU ON WHAT YOU HAVE DONE BEFORE IT GOES UP ON YOUR DISPLAY BOARD. [This is a very important part of your project evaluation. It really matters.]

- 12/19/19 – Graphing exercise, Force and Weight, Gravitational Interactions
1/9/20 – Ocean Tides, Satellite Motion, Temperature
1/16/20 – Heat Transfer, Semester Review and Month 5 Test Preparation