PHYSICS MONTH 2

Prentice Hall Conceptual Physics - Chapters 4, 5, 6, 18 **Due: 10/18/19**

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 the monthly work.
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/reports for Month 2.**

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Student Signature Date Parent Signature Date

1**) Chapter 4 – Newton's First Law of Motion – Inertia**
Define: equilibrium, force, friction, inertia, kilogram, law of inertia, mass, net force, Newton, Newton's first law, normal force, support force, weight.
Review Questions 3-5, 7-17, 19, 20 Plug and Chug #21-23
Think and Explain #26, 28-32, 36, 37 Think and Solve #38

2) **Chapter 5 – Newton's Second Law of Motion – Force and Acceleration**
Define: air resistance, fluid, free-body diagram, inversely, Newton's second law, Pascal, pressure, terminal speed, terminal velocity.
Review Questions 1-4, 7-11, 13-18 Plug and Chug #19-21
Think and Explain #24, 26-28, 31-34 Think and Solve #43

3) **Chapter 6 – Newton's Third Law of Motion – Action and Reaction**
Define: action force, interaction, Newton's third law, and reaction force
Review Questions 1-17 Think and Explain #19-36, 38, 39

4) **Chapter 18 – Solids**
Define: crystal, density, elastic, inelastic, specific gravity, weight density,
(+ compression and tension from reading pp. 264-265. Good stuff.)
Review Questions 1, 2, 5, 9-11, 13, 15, 19 Think and Explain #21, 22

5) **STUDY** Laboratory Experiment for 9/26/19 – Acceleration due to Gravity Lab
GROUP Laboratory Experiment for 10/3/19 – Projectile Motion Prediction Lab
WORK Demonstrations and Chapter Reviews - 10/10/19

6) Month 2 Self-Chosen Physics Concept Question, Answer, and Reflection on the Answer from an interesting idea you see developing in Chapters 4-6, or 18.

7) Preliminary research paper related to your Semester Science Project. Details will be given in a handout on what is expected for this assignment.