

Prentice Hall Conceptual Physics - Chapters 4, 5, 6, 18

Due: 10/19/18

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.**

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 9/27/18 – Pendulum Lab

GROUP

Laboratory Experiment for 10/4/18 – Projectile Motion Prediction Lab

WORK

Demonstrations and Chapter Reviews - 10/11/18

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