

Texts:

Packet Due **10/18/19**

Physics (Cutnell & Johnson) 6<sup>th</sup> Edition

Openstax College Physics for AP Courses (Free electronic version)

Edvantage Science AP Physics 1

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 below.
6. **TURN IN THIS WORK ON TIME** to your supervising teacher.
7. **Students must submit at least two lab works/report for month 2.**

\_\_\_\_\_  
Student Signature

\_\_\_\_\_  
Date

\_\_\_\_\_  
Parent Signature

\_\_\_\_\_  
Date

### Cutnell Ch. 3 – Kinematics in Two Dimensions

1) P. 74 Conceptual #1-6, 8– P. 75 Problems #1,, 5, 17, 27, 62

### Cutnell Ch. 4 – Forces and Newton’s Laws of Motion

2) P. 115 Conceptual #1-4, 6-8 - P. 116 Prob. #1, 3, 5, 23, 27, 34, 35, 55, 58, 67, 69

### OpenStax Ch. 3 – Two-Dimensional Kinematics

3) Define: analytical method, commutative, head to tail method, motion, projectile motion, range, relative velocity, resultant, and trajectory.

4) Problems & Exercises #25, 40, 46, 55, 65 – Test Prep for AP # 1, 2, 6

### OpenStax Ch. 4 – Dynamics: Force and Newton’s Laws of Motion

5) Define: dynamics, external force, force, force field, free-body diagram, friction, inertia, inertial frame of reference, net external force, Newton’s first of motion, Newton’s second law of motion, Newton’s third law of motion, normal force, system, tension, thrust, and weight.

6) Problems & Exercises #1, 2, 6-8, 22, 23, 25 34, 42 - Test Prep for AP #5-12, 19-22 25

7) Edvantage AP Physics 1: **Kinematics**, p. 78, #1, p. 79, #4, p. 87, #19

8) Edvantage AP Physics 1: **Dynamics**, p. 103, #5, p. 115 #2, p. 116 #9, p. 121 #3, p. 132 #1-3, 6

### 9) Two + Laboratory Experiments/Exercises

a) 9/26/19 – Motion Prediction Using Kinematic Equations Lab

b) 9/3/19 - 5 Steps to a 5 Multiple Choice questions to complete and correct.

c) 10/10/19– Forces On An Inclined Plane Lab

10) Cutnell Student Companion Test Questions to answer. Information sent by email.