

Texts:

Packet Due 1-25 -19

Physics (Cutnell & Johnson) 6th 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.
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

- 1) Cutnell Ch. 8 – **Rotational Kinematics** - P. 224 Conceptual #3, 4, 6, 8, 9, 11, 12
P. 225 Problems #1, 2, 4, 5, 16 -18, 33, 48
- 2) Cutnell Ch. 9 – **Rotational Dynamics** - P. 257 Conceptual #1-3, 8, 10, 14, 16-19, 23, 24
P. 258 Problems #2, 4, 8, 11, 12, 17, 45, 52
- 3) OpenStax Ch. 9 – **Statics and Torque (Glossary Below)**
Problems & Exercises #1, 3, 20, 27, 28, 37
Test Prep for AP Courses: Do #1-4, 8
- 4) OpenStax Ch. 10 – **Rotational Motion and Angular Momentum (Glossary Below)**
Problems and Exercises #1, 2, 4, 6, 11, 22, 34(a), 36
Test Prep for AP Courses #4, 9, 10, 13, 15, 25
- 5) Edvantage Ch. 7 – **Torque and Rotational Motion**
P. 295 #2, P. 297 #3, P. 300 #5, P. 307 #2, P. 322 #3, #6, P. 326 #2
- 6) OpenStax – Ch. 9 Glossary:
center of gravity, dynamic equilibrium, mechanical advantage, neutral equilibrium, SI units of torque, stable equilibrium, static equilibrium (2 of them), torque, unstable equilibrium.
- 7) OpenStax – Ch. 10 Glossary:
angular acceleration, angular momentum, change in angular velocity,
kinematics of rotational motion, law of conservation of angular momentum,
moment of inertia, right-hand rule, rotational inertia, rotational kinetic energy, tangential acceleration, torque, work-energy theorem.
- 8) Two **Laboratory Experiments/Exercises/Demonstrations**
 - a) 1/10/19 - Rotational Dynamics and Angular Momentum
 - b) 1/17/19 - Catch Up and Review

Your 3-panel Semester Independent Science Project display board and separate write up are due at the latest in the Auditorium/Cafeteria Jan. 28, 2019, 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 ON JANUARY 10, OR 17, 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.]