

Physics 12 Exam Overview Jan 2018

Our Exam will be Tuesday January 30th at 1:30 pm. If you have a conflict and can't write your exam at that time please let me know ahead of time.

You may use your own formula sheet for the exam. It must be a single sheet of paper. You may not have any worked examples. You can have any formula you want.

Your exam will likely include questions on the following. This is not a definitive list.

Unit 1 Kinematics

- A projectile motion problem, shot at an angle, find hang time and range
- A velocity vs time graph, you will need to analyze the motion

Unit 2 Forces

- Two mass problem, find tension and acceleration, with friction, flat surface

Unit 3 Energy

- Car rolling down a slope problem. Find velocity at the bottom. Heat lost in the process.

Unit 4 Momentum

- 1 D car crash problem
- 2D car crash problem

Static Equilibrium

- Hanging mass problem with a right angle

Electromagnetic Forces and Induction

- Be able to apply the RHR for both conductors and motors
- Be able to calculate for the force on a wire and a charged particle