

AP Physics 2 Summer assignment 2022/2023

The summer assignment is worth 100 homework points and is due in on first day of school, written on a separate paper in black ink, with clear headings and your name. Scan your document as 1 PDF document so it is ready to upload to Schoology on the first day of school.

Part 1:

AP Physic 2 uses the same textbook as AP Physics 1.

You have access to Mastering Physics course for AP Physic 1 till August 20th.

Read chapter 13 Static Fluids and 14 Fluids in motion. Try a few questions on each section of the chapters and make notes on the examples and conceptual exercises.

Read and outline each section on a separate sheet, make notes on **key vocabulary, definitions, equations** and **worked examples**.

Part 2:

Use APlus physics .com https://www.aplusphysics.com/courses/ap-1/AP1_Physics.html#ap2

and watch the following videos and make notes of the key points and the examples.

A. Fluids

- 1 [Density and Buoyancy](#)
- 2 [Pressure and Pascal's Principle](#)
- 3 [Continuity Equation for Fluids](#)
- 4 [Bernoulli's Principle](#)

Part 3:

Once you have completed the summer assignment review Chapters 2 to 10, AP Physics 2 requires use of concepts in AP Physic1, you will benefit from reviewing the topics from your notebooks, APlus physics website and Khan Academy.

Parts of AP Physics 1 are assumed as prior knowledge, in particular Kinematics in 1 and 2 dimensions, Newton's laws, vectors work and Energy.

The following website has all the material on AP Physics 1:

http://www.applusphysics.com/courses/ap-1/AP1_Physics.html

<https://www.khanacademy.org/>

For information:

AP Physics 2 covers the following chapters 11 to 30.

You may have to renew your subscription to Mastering Physics and include the digital copy of the textbook. Details of how to renew your subscription will be provided the first day of School. There is an option to purchase a paper copy of the book once you have registered for Mastering Physics.

Capstone software is used for labs with sensors, follow the link below to download and install the software by August 11th, you will be given the license key at the start of the course.

<https://www.pasco.com/products/software/capstone#downloads-panel>