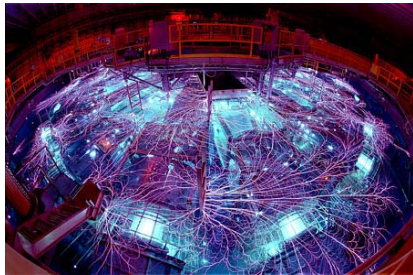


Advanced Placement Physics B

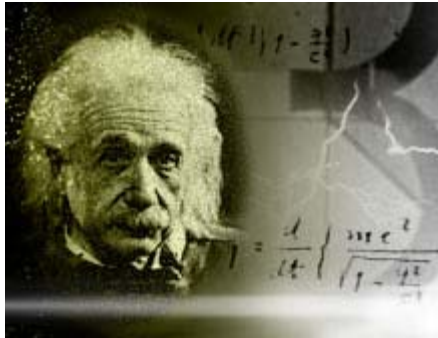


Physics is the study of motion, energy and matter and how they interact with each other.

Physics includes the study of all forms of energy from mechanical energy to atomic and nuclear energy.

Matter comes in many sizes.

Physics involves matter from the smallest subatomic particles to magnitudes the size of galaxies and the universe.

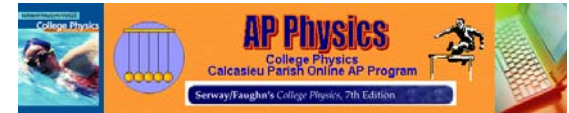


LCB Academy of Learning

1509 Enterprise Blvd.
Lake Charles LA 70601
Phone: 337.217.4390
Fax: 337.217.4391
arlene.cain@cpsb.org



Advanced Placement Physics B



Take the challenge
Take AP Physics!

Does your future college plans include majoring in a science field? Are you planning a career in Pharmacy, Engineering, Chemistry, Physical Therapy, Meteorology, Medical, Aeronautics, Computer Science, or Biotechnology? Do you want to be a step ahead of the rest? Then you should make AP Physics B part of your plan.

For more information contact:
A. Cain arlene.cain@cpsb.org
LCB Academy of Learning
337.217.4390 Ext. 5330

What's in it for you?

Physics forms the basis of present and future technology.

The AP Physics course is set-up as a hybrid online course. The assignments and lessons are online. Students submit their work and take their test through Blackboard and can access the course anytime from any Internet computer. We use Office Communicator and Live Meeting to meet and discuss problem solving. You will use a webcam and headphones to login to scheduled meetings with the Instructor and other AP Physics students. We meet at LCB Learning Academy for Labs.

AP Physics B online offers three advantages over regular physics classes. The class is smaller in comparison to the classes offered at my high school, allowing me to have more concentration on work. Next, AP Physics allows me to do many experiments and gain knowledge on equipment that is not available in the normal physics class. And finally, by taking the AP Physics Exam I can obtain college credit." ~Jerome Weston Washington Marion

Challenges

The Physics B course includes topics in both classical and modern physics. Knowledge of algebra and basic trigonometry is required for the course. Some basic ideas of calculus may be introduced in connection with physical concepts such as acceleration and work. The AP Physics course is designed to develop student understanding of the basic principles of physics. A major goal of AP Physics B is for students to develop the ability to apply these principles in the solution of problems. AP Physics utilizes guided inquiry and student-centered learning to foster the development of critical thinking skills.

AP Physics covers five content areas: Newtonian mechanics, fluid mechanics, thermal physics, electricity and magnetism, waves and optics, and atomic and nuclear physics.

The major concept areas that are covered in AP Physics by percent are:

Newtonian Mechanics 35%
Fluid Mechanics and Thermal 15%
Electricity and Magnetism 25%

Technology

Waves and Optics 15%
Atomic and Nuclear 10%

AP Physics Labs utilize computer based data collection. Hands-on laboratory experiments are a very important component of AP Physics B and develop skills such as:

- Designing experiments
- Observing and measuring real phenomena
- Organizing, displaying, and critically analyze data
- Communicating results, including suggested ways to improve experiments and propose questions for further study.

AP Physics B is a challenging course that takes independent learning to a new level. You must be motivated and willing to put forth your very best effort and work hard to grasp the subject content. It can get frustrating at times, but with the help of your instructor and classmates, this class can take your intellectual ability to a higher level. I definitely feel like this class has prepared me for the rigor of a college Physics course- the multiple labs we complete as part of the curriculum is a solid preparation for the labs of college classes. ~Aaron Ackley LaGrange