HILLGROVE HIGH SCHOOL

Physics – Mr. Teters
Spring 2021 Syllabus

Course Description

Physics is a mathematical science. Physics is the study of the "how" and the "why" of the world around us. The development of higher order thinking skills is encouraged in the course as it is throughout Hillgrove's science program. It is also stressed that science is an experiential subject and must be experienced firsthand to truly be understood. Each Unit provides each student with materials and opportunities designed to help the student understand the concepts as well as appreciate the application of the content in her/his life outside of the science classroom. This classroom is intended to be a place where the student can safely think about and explore the world we live in. Every student's opinion is respected, with the understanding that science is a subject with little room for opinion that cannot be supported by observation, experimentation, and mathematical calculation. All of this requires individual student accountability and open communication in regard to his/her behavior, work, and grades.

Textbook (available in CTLS): **Physics. HMH. 2018.**

Hillgrove Physics Team

Mr. Buckert - Matthew.Buckert@cobbk12.org
Room 1221

Mr. Dine – John.Dine@cobbk12.org
Room 1219

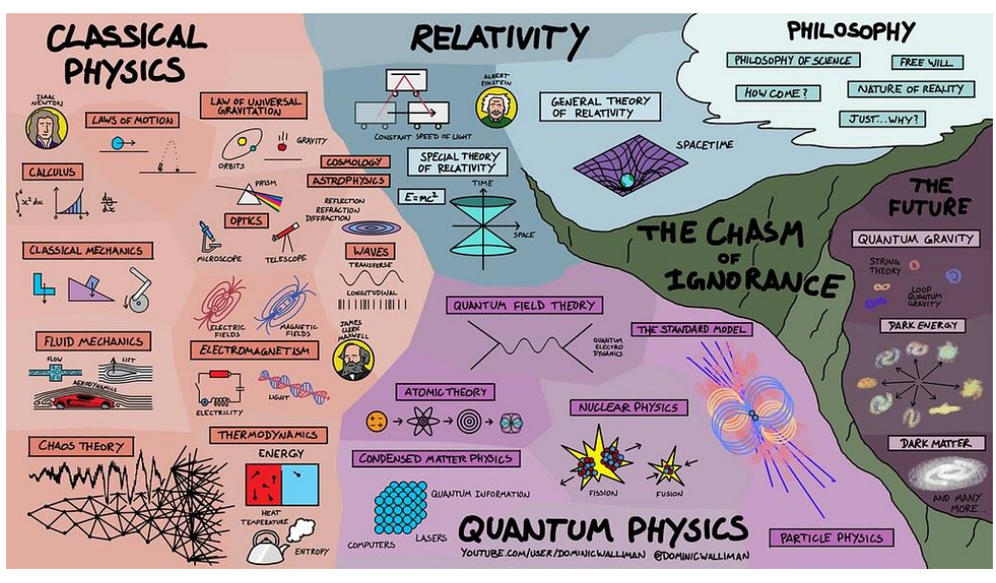
Teacher websites/blogs can be found at:
https://www.hillgrovehighschool.org/Science

Ms. Deleon – Christina.Deleon@cobbk12.org
Room 1209

Mr. Teters - Michael.Teters@cobbk12.org
Room 1215 CTLS
Office Hours MTThF 3:30-4:00pm

Mr. Pinckney – Daniel.Pinckney@cobbk12.org
By appointment through CTLS

TOPIC	STANDARD		TOPIC	STANDARD
Analyzing Motion	**SP 1**	**SP 2**	**Analyzing Electricity & Magnetism**	**SP 5**
Speed & velocity (1)	a, b, c		Electrostatics (8)	a, b, c
Acceleration (2)	a, b, c		Current & Circuits (9)	d
Projectiles (3)	d		Magnetism & Motors (10)	e
Newton's Laws (4)		a, b, c		
Application of Newton's Laws (5)		c, d, e		
Evaluating Energy	**SP 3**		**Exploring Waves**	**SP 4**
Momentum (6)	a, d		Wave Properties (11)	a, b, c
Mechanical Energy (7)	b, c		Sound (12)	a, b, c
			Light (13)	d, e
			Optics (14)	f, g



Shared Learning Expectations

Remote*

- ***Before you log in for the day/class…Put away/turn off any forms of distraction: your phone, your TV and whatever else might distract you
- ***Log in to CTLS and read the Class Board and Announcements on the Class page then go to the appropriate Digital Session.
- ***Join the Live Session with your **camera on and microphone off** and ready to start on time. I should see your enthusiastic face. Always let me know if you are having trouble accessing the course and materials
- Treat one another with respect. All interactions in chat, live video, or discussions should be as appropriate online as they are in the classroom
- Complete, and turn in, all assignments on time and with the quality expected from a student of your experience.
- Always answer in ***complete thoughts*** that allow the reader/listener to understand what the subject is without having seen/heard the question.
- It is your responsibility to let me know that you do not understand something.
- While in class, do your best to understand what is being discussed. You should respond when asked a question about the content. I don't need to you have the right answer, only to demonstrate you are thinking.
- If you are unable to attend class, you should go to the CTLS course page to find out what you missed.

Safety: yes, even at home…

- Read all instructions and precautions before beginning any lab activities. Use materials only for intended purpose.

Pay attention and focus and allow others to do the same during class, when in doubt ask, and…..
Work first, play later, but by all means play.

Grading Guidelines

The following are the typical assignments that occur each chunk. Others may be used within these categories as well. Be aware of all due dates provided when work is assigned.

Labs (25%)

- A mixture of hands on (using materials available at home), simulations, and demonstrations
- You will be expected to complete the provided lab sheets or lab report as instructed.

Formative (25%)

- Instructional videos/readings: these are created/selected by your teacher.
- For each video/reading you should take notes. These notes are usually expected to be digitally uploaded or given directly to Mr. Teters.
- Skills checks:
  - Schoology - Generally 5 questions checking for basic understanding of the current content.
  - Worksheets – problem solving and other authentic tasks. Your written work will usually be expected to be digitally uploaded or given directly to Mr. Teters.

Summative Assessment (tests) (40%)

- Individual assessment for each chunk.
- Multiple choice, problem solving, short answer among others

The Final Exam (10%)

- Detailed cumulative of entire semester; Multiple choice; approximately 80 questions.
- You should keep all materials from each chunk to help you prepare for the final. You will also be provided access to an additional Final Exam Review

Absences/Make-up work

- You are expected to be in class each day. You are responsible for completing all work missed when you are unable to attend.
- However, if you are unable to attend a Digital Session, you will have access to all materials through CTLS. This will include recordings of the daily live sessions.
- Be sure to communicate with me regarding any missed sessions as soon as possible so we can ensure you keep up with class.
- Work not turned in before a test will be marked as a zero. If turned in late it will be 50% off.
- No work will be accepted more than two chunks late. For example, If you did not turn in the Chunk 1 Lab, you have to turn it in before the end of Chunk 3, or it will remain a zero.