

WEEK OF: December 7, 2020

CLASS: Physics 103 – C/D Blocks

TEACHER: Mrs. Burke

CONTACT INFO: Deborah.Burke@thedeltahighschool.com (contact via direct email, through Teams, and through Remind = Dphys103T2)

OBJECTIVES:

- Increase variable symbol recognition
- Practice algebraic manipulation for problem solving
- Develop understanding of drag

ZOOM LINKS:

Check TEAMS POSTS for link information (we will use Zoom if it is working, Teams if Zoom is unavailable).

YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #1:

Bookmark the course lesson book

Explore sounds in your environment

Listen to a podcast episode at <https://www.20k.org/>

Journal Entries:

Sound diary – List sounds from your environment (occasionally throughout 1 week) and mark them as:

- Constant (or nearly so)
- Intermittent
- Rare

Resource Interaction:

- Listen to an episode of the podcast 20,000 Hertz at <https://www.20k.org/>
 - Key Concepts
 - Example problem(s)
 - Questions

SYNCHRONOUS MEETING #1:

- Refresher on the relationship between frequency, velocity, and wavelength
- Form study groups and select office hours meeting day

YOUR RESPONSIBILITIES AFTER ZOOM #1:

- Have notes detailing the learning you've experienced toward meeting the objectives state above. Put these into your Teams > Class Notebook > Journal
- Join Remind group [@Dphys103T2](#)

YOUR ASYNCHRONOUS RESPONSIBILITIES AFTER ZOOM #1

- Explore the course syllabus

- Determine desire to take course for college credit
- Request Accuplacer testing (as needed)
- Come to office hours with your study group
- Read the Physics Classroom [Doppler Effect](#)
- Read OpenStax College Physics [section 17.4](#)
- Start Doppler worksheet (move worksheet from Teams Files to your Teams Journal)

YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #1 Next Week:

- Complete $\frac{1}{2}$ of Doppler worksheet problems
- Watch real-world connection video <https://www.youtube.com/watch?v=JL8PayB8r6c>
- Read OpenStax College Physics section 17.4

Journal Entries:

- Basic wave equation and the symbol meanings
- Relationships between frequency, velocity, and wavelength
- Doppler equation and symbol meanings
- Doppler worksheet practice

Resource Interaction:

- Read OpenStax College Physics section 17.4 (take notes!) and The Physics Classroom Doppler Effect
 - Key Concepts
 - Example problem(s)
 - Questions
- Watch Doppler video <https://www.youtube.com/watch?v=h4OnBYrbCjY&vl=en>
 - Key Concepts
 - Questions

SYNCHRONOUS MEETING #2:

- N/A – go to your Student-Led Conference

IDEAS FOR USING YOUR ASYNCHRONOUS TIME:

Study TOGETHER

Doppler worksheet practice

Textbook reading

Video viewing

Journal entries

Make college credit enrollment decision

DUE DATES:

- Determine desire to enroll for college credit: December 11th
- Paperwork for college enrollment: December 16th

OFFICE HOURS:

11:45-12:45: Look in Teams Posts for Zoom link. Drop-in format. If you are taking this course for college credit, you are expected to attend office hours weekly. This is a good

opportunity to work together in a study group. You may also request a breakout room for a study group for any other class.

Other contact options: email, Remind, Teams post