WEEK OF: December 7, 2020

CLASS: Physics 111 – A Block

TEACHER: Mrs. Burke

CONTACT INFO: Deborah.Burke@thedeltahighschool.com (contact via direct email, through Teams, and through Remind = Dphys111T2)

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:

Journal Entries:

- Formula and units for drag
- Meaning of each symbol in formula
- Record definition of "coefficient."
- What influences drag most?

Resource Interaction:

- Read OpenStax College Physics section 5.2 (take notes!)
  - Key Concepts
  - Example problem(s)
  - Questions

SYNCHRONOUS MEETING #1:

- Using the drag formula: 1 example problem then breakout room practice with peers
- Form study groups and select office hours meeting day

YOUR RESPONSBILITIES 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 @Dphys111T2

YOUR ASYNCHRONOUS RESPONSIBILITIES AFTER ZOOM #1

- Come to office hours with your study group
- Begin work on drag worksheet problems – move worksheet from Teams Files to your Teams Journal

YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #1 Next Week:

- Complete drag worksheet problems
- Watch real-world connection video https://www.youtube.com/watch?v=JL8PayB8r6c
- Read OpenStax College Physics section 2.8

Journal Entries:

- Relationship between viscosity and friction force
- Relationship between surface area and friction force
- Relationship between velocity and friction force
- Drag worksheet practice

Resource Interaction:

- Read OpenStax College Physics section 2.8 (take notes!)
  - Key Concepts
  - Example problem(s)
  - Questions
- Watch drag video https://www.youtube.com/watch?v=JL8PayB8r6c
  - Key Concepts
  - Example problem(s)
  - Questions

SYNCHRONOUS MEETING #2:

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

IDEAS FOR USING YOUR ASYNCHRONOUS TIME:

Study TOGETHER
Drag 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