WEEK OF: January 18, 2021

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:

- Review trig functions
- Utilize trig functions to analyze projectile motion
- Apply kinematics equations to projectile motion

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:

Take the Kinematics with Constant Acceleration Quiz

Journal Entries:

- Sample problems showing strategies to solve (variable charts, motion drawings, equation selection, unit confirmation)
- Kinematics Worksheet #2: problem solving (2 per day)

Resource Interaction: Introduction to Kinematics" video

- Key Concepts (problem solving strategy summary)
- Questions

SYNCHRONOUS MEETING #1:

- Projectile motion using trigonometric functions
- Kinematics worksheet #2 problems – breakout rooms

YOUR ASYNCHRONOUS 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
- Kinematics worksheet #3: problem solving (2 per day)
- IF NEEDED: review trig functions (I recommend looking at the three chapter review portions)

YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #2

Kinematics worksheet #3: problem solving (2 per day)

Projectile Motion Lab

Resource Interaction:

Brief notes: OpenStax 2.7: Falling Objects

Brief notes: OpenStax 3.1 and 3.2 Graphical vectors REVIEW

SYNCHRONOUS MEETING #2:

- Projectile motion, continued

YOUR ASYNCHRONOUS RESPONSIBILITIES AFTER ZOOM #2

- Have notes detailing the learning you've experienced toward meeting the objectives state above. Put these into your Teams > Class Notebook > Journal
- Take the Kinematics Vector Components by Trig Quiz by Jan 25th
- FULL Resource interaction notes: OpenStax 3.3: Vector Addition and Subtraction

Journal Entries:

COMPLETE BY 1:00 pm Monday Jan 25th

Class notes:

Solving vector components by trig

Using kinematic equations with projectiles

Kinematics worksheet #3: problem solving (2 per day)

Projectile Motion Lab

And

Resource Interaction Responses:

Brief notes: OpenStax 2.7: Falling Objects

Brief notes: OpenStax 3.1 and 3.2 Graphical vectors REVIEW

IF NEEDED: review trig functions (I recommend looking at the three chapter review portions)

FULL Resource interaction notes: OpenStax 3.3: Vector Addition and Subtraction

Resource Interactions:

- Key Concepts
- Example problem(s)
- Questions

IDEAS FOR USING YOUR ASYNCHRONOUS TIME:

Study TOGETHER
Worksheet problems
Trig review
Lab activities
Journal entries

DUE DATES: All Due by Monday Jan 25th at 1:00 pm

- Worksheet problem completion (in journal)
- Kinematics Vector Components by Trig quiz
- ALL required journal entries

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