

**WEEK OF:** OCTOBER 12, 2020

**CLASS:** Physics 111 – C Block

**TEACHER:** Mrs. Burke

**CONTACT INFO:** [Deborah.Burke@thedeltahighschool.com](mailto:Deborah.Burke@thedeltahighschool.com) (contact via direct email, through Teams, and through Remind = dhsphy111a)

**OBJECTIVES:**

- Exploring the gravitational potential energy and kinetic energy
- Algebraic manipulation of formulas
- Developing mathematical relationships

**CLASSROOM MEETING TIMES:**

Tuesday and Friday

1:20-2:00 pm

**LINKS:**

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

**YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #1:**

- Net Force worksheet (5 more problems)
- GPE and KE Worksheet #2 WITH force diagrams (5 problems, including #10)

**SYNCHRONOUS MEETING #1:**

- Problem review Q&A session
- Group lab activity: effect of drop height on speed in an online simulation

**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 > Class Notes file.

**YOUR ASYNCHRONOUS RESPONSIBILITIES AFTER ZOOM #1:**

- QUIZ #5 due by 4 pm Wednesday

**YOUR ASYNCHRONOUS RESPONSIBILITIES BEFORE ZOOM LESSON #2:**

- Finish group lab activity OR have written questions describing where you are stuck
- GPE and KE Worksheet #2 WITH force diagrams (5 more problems)

**SYNCHRONOUS MEETING #2:**

- Group lab activity discussion
- Excel tutorial

**YOUR 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 > Class Notes file.

### **YOUR ASYNCHRONOUS RESPONSIBILITIES AFTER ZOOM #2:**

- Finish GPE and KE Worksheet #2
- Add free body diagrams to GPE/KE Worksheet problem set

### **IDEAS FOR USING YOUR ASYNCHRONOUS TIME:**

TAKE QUIZ, GPE and KE calculations and free body diagrams on worksheet #2, finish lab activity

### **DUE DATES: (all in "Teams – class notebook – homework" unless noted)**

Saturday Oct. 10<sup>th</sup> by 4 pm – 2 quizzes:

- Net force *[algebraic rearrangement, use to solve for different variables, symbols indicating direction, interpreting for motion]*
- Force formula ( $F=ma$ ) *[algebraic rearrangement, use to solve for different variables, effects of changing variable values]*

Monday Oct. 12<sup>th</sup> by 1 pm

- Net Force worksheet (5 more problems)
- GPE and KE Worksheet #2 WITH force diagrams (5 problems, including #10)

Wednesday Oct. 14<sup>th</sup> by 4 pm

- Quiz #5

Thursday Oct. 15<sup>th</sup> by 1 pm

- Group lab activity
- GPE and KE Worksheet #2 WITH force diagrams (5 more problems)

Monday Oct. 19<sup>th</sup> by 1 pm

- Finish GPE and KE Worksheet #2 WITH force diagrams

**Assessments: These will be single-topic, short quizzes that earn grades**  
**No more than one will be given in a day. They are open-note and open-internet**  
**TIMED tests done during ASYNCHRONOUS time.**

Week of Oct. 12<sup>th</sup>:

GPE and KE *[algebraic rearrangement, use to solve for different variables, relationship between the two, effects of changing variable values]*

### **OFFICE HOURS:**

11:45-12:45: email, contact through Remind, message through Teams. Look in Teams Posts for link to video access.