

**WEEK OF:** SEPTEMBER 21, 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:**

- Algebraic manipulation of formulas
- Exploring the gravitational constant with pendulums
- Ways to improve data accuracy and precision
- Model forces using free-body diagrams

**CLASSROOM MEETING TIMES:**

Monday and Thursday  
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:**

- Free-body diagrams practice worksheet (½ of 1-10) (see Homework in Teams Notebook)

**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:**

- Watch the Free-Body Diagrams Instructions video (see Teams – Content Library – Resources – Free Body Diagrams)

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

- Free-body diagrams practice worksheet (11-12) (see Homework in Teams Notebook)

**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:**

- Watch Free Body Diagrams Guided Practice video (see Teams – Content Library – Resources – Free Body Diagrams)
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- Do remaining practice problem (other half of 1-10) on Free-Body Diagram worksheet (see Homework in Teams Notebook)

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

Lab activities: gather data pendulum, complete calculations, evaluate data, compare data sets (drop v pendulum), respond to assignment, free-body diagrams review and practice

### **DUE DATES:**

- Free-body diagrams practice worksheet ( $\frac{1}{2}$  of 1-10): Tuesday Sept. 22<sup>nd</sup> by noon
- Free-body diagrams practice worksheet (11-12): Friday Sept. 25<sup>th</sup> by noon
- Free-body diagrams practice worksheet (finish): Tuesday Sept. 29<sup>th</sup> by noon

### **TEST DATES:**

Synchronous quiz during synchronous session 1 of next week (identifying proper free-body diagram use) = Sept. 22<sup>nd</sup>

### **OFFICE HOURS:**

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