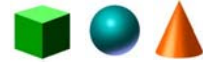


PHYS 210 - General Physics I

02 Sept 2019



HW 3

- See WebPage after Class

Free paper?

GP I

PreLab?
Pre-Assessment!

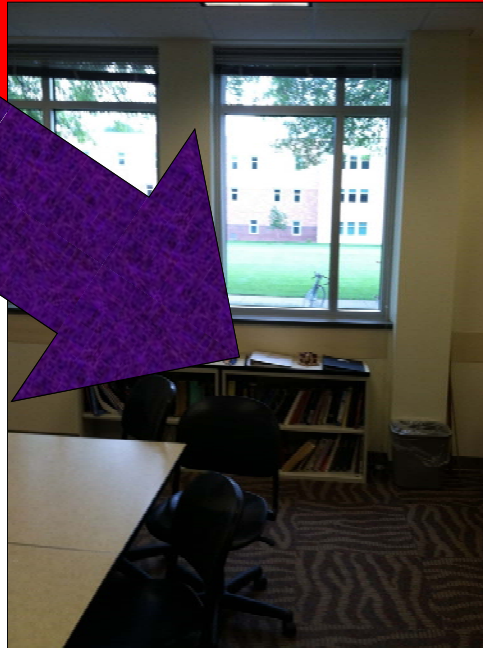
- Homework back
- Lab tomorrow: 10:30-12:20 & 1:30-3:20
- Base Group Work
- Questions about the readings?
- Brief "Reading Quiz!"
- Dimensional analysis
- Motion diagrams
- Vectors
- Slopes and motions graphs

Bring \$1 for
lab notebook!

Additional prep?
LoggerPro
"Video Analysis Tutor"!



Room
SCIC 114



Base Groups

PHYS 210 Fall 2019 Base Groups				
1 Bryce	Morales	2 Heather	Binion	
1 Stephen	Newkirk	2 Kendall	Wrage	
1 Cassie	Rough	2 Ryan	Nastav	
1 Kaprecia	Larks Robinson			

Base Group Plan:

- Congratulate each other on survival since the last meeting and check if anyone is under any undue stress.
- Check that each Base Group Member has a complete *Base Group Admission Ticket*.
- Review what members have read since the last meeting and work on the Base Group assignment (often this will be in the form of a Base Group Worksheet). Each Monday, you will be assigned specific Base Group tasks using specific roles and/or procedures.

Base Group Meeting

- BGDG
- Discussion: Each group member must contribute ideas in addition to following procedure!
- Group Processing
- RQ

Base Group Meeting

Memorize your
Base Group
number!

Base Group Worksheet and Reading Quiz Scores

General Physics I
Fall 2018

Base Group # _____

BG Worksheets		Reading Quizzes				BGBP?
	G					
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						

Names here

Initials for week 1

Base Group Meeting

Base Group Description Grid

Base Group Meeting

BASE GROUP WORK FORMAT

1. Take out one sheet of paper to serve as the Recorder Sheet. Work from memory and BG Tickets. You may NOT use your textbook!

2. **CYCLE:** Take turns with these roles each week. For this week, the oldest group member is the reader and assigns the other roles.

Reader: Reads question from BGMS. Discusses material.

Recorder: Writes down an answer, after discussion, that synthesizes the input of all members and with which all members agree. Discusses material.

Checker: Checks to make sure everyone understands and agrees on the main points. Asks questions & discusses.

Skeptic: Suggest possible reasonable alternative answers & discusses (use this role only if \geq four group members!).

3. When you are finished, all group members must sign at the bottom of the Base Group Worksheet signifying agreement with answers. Place the Base Group Worksheet in your Base Group folder.

Additional Task: (over the back of this page)

Signature: _____

Base Group Meeting

BG Processing:

Name one helpful thing that you did well during your Base Group Meeting! Write this by your name, below:

Name	Helpful thing you did well ...

Dimensional Analysis

- Often we can make reasonable calculations of quantities by examining the units (**dimensional analysis**) and finding a way to combine them to get what we want.
- Examples:
 - It's 80 miles to South Bend. If a car gets 24 mpg, how many gallons will it take to get there? If gas costs \$2.60 per gallon, how much will the trip cost?
 - U.S. "proved" oil reserves are estimated (2017) to be about 39.2 billion bbl (bbl = barrels). How many years will these reserves last at our current consumption rate of about 20.45 million bbl/day (2018 data)?

Happy Labor Day!!

