

Sign up for AP Physics Problem of the Day (<http://www.learnapphysics.com/apphysicsc/index.html>)
(<https://twitter.com/learnapphysics>)

WEEK 1 – Aug 14

- Discuss handouts, Safety Procedures (fire / tornado), ALICE, attendance and class change, procedures for classroom (whiteboards, computers, WB stands, homework notebooks, lab notebooks, mailboxes, markers, tardy sign in, hall passes sign in / out).
- Remind **rmd.at/34346d** or Text the message **@34346d** to the number **81010**.
- Distribute on Google Classroom (Class code: **zx8bwj**) the **Procedures, Expectations, Discipline, and Parent Letter and Review** them.
- Summaries / Talk about what to do for homework.
- Mindset discussion

Demo's Think Tube, Light to Sound, Tornado O' Physics

Homework:

- Fill out student questionnaire on Google Classroom for **Tomorrow**.
-
- Return signed parental letter by **Thursday**.
- **Get a Problem 3-Ring Binder** / Composition Book by **Friday**.

When you have free time in class you should be working on the next assignment!



- Turn in student questionnaire
- Discuss Textbooks / Online textbook / Online Homework (MasteringPhysics & The Expert TA / AP Physics Problem of the day sign up).
- You are to write a summary of each chapter as we explore them, it has proven very helpful in the past to help you prepare for the AP Exam and when you get to college.
- Go over Ch 1 HW and representations
 - Discuss Chapter 1 and **review dimensional analysis** method of converting units. Dimensional Analysis is especially useful **when converting from English to Metric or Metric to English systems**. Review how using units can help you figure out formulas to use in a problem.
- Get textbook from Media Center
- Discuss physics pictures
- Start on ExpertTA assignment 1
- Waiting on Amazon order: Handout 5 Steps to a 5. Read Chapter 1-3, Ch 7 pages 47-62

Homework:

- 5 Steps to a 5. Read Chapter 1-3, Ch 7 pages 47-62 (**Due Tuesday, September 6**)
- ExpertTA assignment 1, due **Friday before school**.

Remind students to be sure to do homework problems in **Problem Binder**. First 5 pages for a table of contents. Problems on right side of notebook, leave left side blank. Solutions need to be written so that they are easy to read

and spaced out. Cramming solutions together to make them fit on 1 page will lose you points. Formula's, and algebraic steps will need to be explicitly show on the solutions. Corrections to Homework will be part of your test corrections. Use a post-it note to mark current assignment.

Discuss AP Physics Shirts.??

- Collect signed parental letter
- Continue / Finish Mindset discussion
- Start Game of Science
- Ch 3 Preview and (HW) reading quiz (notes / summary required) for Monday

Homework:

- Homework Binder
- ExpertTA assignment 1.
- Read Ch 3 and summarize for Tuesday

- **Expert TA Homework due**
- Game of science
- Hand out Formula Sheet
- Learning formulas – Start learning the formulas now.

When you have free time in class you should be working on the next assignment!

(82 days left in semester)

- **Follow AP Physics Problem of the Day (You could see these on a quiz or test)**
- (<http://www.learnapphysics.com/apphysicsc/index.html>) (<https://twitter.com/learnapphysics>)

When you have free time in class you should be working on the next topic

Monday (82 days left in semester)

WEEK 2 – Aug 20

- SOLAR ECLIPSE!

When homework is due that day turn in homework notebook before school

- Ch 1 Summary
- Discuss Balloon Drop Physics ← First project of the year
- Discuss AP Physics Shirts??
- Hand out Formula Sheet → Learning formulas – Start learning the formulas now.
- Discuss Game of Science
- Discuss Chapter 1 and **review dimensional analysis** method of converting units. Dimensional Analysis is especially useful **when converting from English to Metric or Metric to English systems**. Review how using units can help you figure out formulas to use in a problem.

Homework – Read & Summarize Ch 3 for Thursday (Skipping Ch 2 for now), Finish Ch 1 MasteringPhysics assignment for tomorrow

Tuesday

- Turn in Homework Notebooks before school
- Discuss Ch 1 Homework
- Left Foot Lab
- Discuss performing Interactive Lecture Demonstrations (ILD's).

Homework – Figure out units used for different variables in formulas on formula sheet, work on designing your balloon drop, Ch 3 Homework due Monday Morning

Wednesday

- Ch 3 Preview and (HW) reading quiz (notes / summary required) for Thursday
- Perform Human Motion ILD's.

Homework – Work on designing your balloon drop, Ch 3 Summary due tomorrow, Ch 3 Homework due Monday Morning

Thursday

- Ch 3 Summary Due
- Reading Quiz Ch 3
- Discuss Ch 3
- Mystery Containers Lab

Homework – Work on designing and building your balloon drop, Ch 3 Homework due Monday Morning

Friday

- Discuss Mystery Containers Lab
- Mindset discussion

Homework – Work on designing and building your balloon drop, Ch 3 Homework due Monday Morning

For planning purposes only (STUDENTS ignore this part!)

- 5 Steps to a 5. Read Chapter 1-3, Ch 7 pages 47-62 read 5 steps to a 5 (Ch 1-3 & 7), (**Due Tuesday, September 6**)
- Start on ExpertTA assignment 1

Monday *(77 days left in semester)***WEEK 3 – Aug 28**

- Ch 3 Expert TA due at start of school, Turn in Notebooks before School
- **Chapter 1 – 3 Test will be given Tuesday of next week.** Discuss how test work. When do we want a study session?
- **AP Shirt?**
- Discuss Expert TA assignment for ch 3
- Stacks of Curves & What's my Error
- Discuss Ch 2

Homework – Ch 2 ExpertTA homework due Friday **before school**, 5 steps to a 5 ch 1-3 & 7, water balloon device

Tuesday

- Ch 2 Summary Due
- Ch 2 Reading Quiz (You may use summary on it.)
- Finish discussing Stacks of Curves
- ILD – Kinematics 2

Homework – Ch 2 ExpertTA homework due Friday **before school**, Read Ch 4 and summarize **due Tuesday**, water balloon device

Wednesday

- ILD – Kinematics 2

Homework – Ch 2 ExpertTA homework due Friday **before school**, Read Ch 4 and summarize, water balloon device

Thursday

- Questions on Ch 2 HW
- Answer questions about Ch 1-3.
- Practice AP Extended Response Question, take then grade

Homework – Ch 2 ExpertTA homework due Friday **before school**, Read Ch 4 and summarize **due Wednesday**, 5 steps to a 5 ch 1-3 & 7, water balloon device

Friday – No School

- Read Ch 4 and summarize (**Skip rotational motion for now**) **due Wednesday**

Homework – Read Ch 4 and summarize **due Tuesday**, 5 steps to a 5 ch 1-3 & 7, water balloon device, **Ch 1-3 Test Tuesday**

Study Session???

Monday *(73 days left in semester)***WEEK 4 – Sept 4**

- LABOR DAY NO SCHOOL!!

Homework – Study for Test, Read Ch 4**Tuesday**

- Turn in Ch 2 Expert TA work
- Ch 1 – 3 Test Review

Homework – Study for Test, Ch 4 Summary due tomorrow**Wednesday – 2 Hr Delay**

- Ch 4 Summary Due
- Ch 4 Reading Quiz

Homework – Start on Ch 4 Homework due Tuesday**Thursday**

- Ch 1 – 3 Test
- Take Group Test
- Discuss test corrections
 - If you got a 3 or lower on the Ch 1 – 3 Test, schedule a time to come in and talk with me about how to do better. If you got a 4 or 5 you don't need to schedule a time but are welcome to come in and talk about the test.
- Finish Grading test

Homework – Ch 4 Homework**Friday**

- Grade Ch 1 – 3 Test, discuss results of test
- Research multiple ways to measure the acceleration due to gravity, g .
- Ch 4 Preview

Homework – Ch 4 Homework

Monday**WEEK 5 – Sept 12**

- Finish Group Test
- Grade Extended Response
- Questions on Ch 4

Homework – Work on Ch 4 Homework due Thursday and Test corrections due Friday, Read Ch 5, and summarize for Monday.

Test Corrections (If you got a 3 or lower on the test, you should be scheduling (**today**) an appointment to see me, so you get credit for the test corrections. This does not apply to the 17-18 class all were 3 and above!)

Tuesday

- Ch 4 Reading Quiz
- Questions on Test corrections?
- Discuss Ch 4

Homework – Test Corrections due Friday, you may come in after school to test your Balloon Drop today if you schedule a time with me

Wednesday

- Research multiple ways to measure the acceleration due to gravity, g .
- Discuss the multiple ways to measure the acceleration due to gravity, g .

Homework – Test corrections & Expert TA, you may come in after school to test your Balloon Drop today if you schedule a time with me

Thursday

- **Ch 4 Homework Due before school**
- Calculate g in Pickerington
- Start testing g .

Homework – Read Ch 5, and summarize for Monday, you may come in after school to test your Balloon Drop today if you schedule a time with me

Friday

- **Balloon Drop Test Day!!!!**
- Test corrections due

Homework – Start writing lab report, Read Ch 5, and summarize for Monday.

Monday**WEEK 6 – Sept 18**

- What needs to improve on the Balloon drop project? What were the physics principals at play in keeping balloon safe.
 - Retest – Rebuilds can qualify for up to a 93% or if your grade is above a 93% you can qualify for the next highest drop score above what you earned the first time.
- Finding g lab

Homework – Read Ch 5 & Summarize for Wednesday

5 Steps to a 5. Read Chapter 1-3, Ch 7 pages 47-62 for Friday

Tuesday

- Finding g lab

Homework – Work on Ch 5 Expert TA due Monday**Wednesday**

- Ch 5 Summary due
- Ch 5 Reading Quiz
- Discuss Ch 5

Homework – Work on Ch 5 Expert TA due Monday**Thursday**

- ILD Kinematics 2

Homework – Work on Ch 5 Expert TA due Monday**Friday**

- Water Balloon Retest Day Monday after school
- Discuss 5 Steps to a 5

Homework – Work on Ch 5 Expert TA due Monday

For g Lab you need to put together a lab report.

For the Lab Report there needs to be:

An introduction part for lab, a procedure for each way you determined g , data tables and graphs, conclusion of results with analysis of how close you were and sources of error, A section on how to improve if you had to do these labs again. Make sure you cite any websites or sources you used in your research.

Explain each way you found g and compare to your predictions to the calculated value for g in Pickerington. Did your prediction match if so why? If not why not?

AP Physics C

Varsity Physics

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Monday

WEEK 7 – Sept 25

- **Water Balloon Retest right afterschool**
- Study sessions
 - Option 1 a day or two before test or
 - Option 2 on the Sunday before
- Ch 5 Expert TA due, drop off homework before school
- Work on Finding g write up / Balloon Drop write up.
- Read Ch 6 and and yada yada yada (Summarize)
- Ch 6 ExpertTA Physics due Monday, turn notebooks in before school Monday

Homework – Balloon lab write up due tomorrow, Read Ch 6 and Summarize due Thursday

Tuesday

- Balloon drop Lab write up due a week from today.
-

Homework – Read Ch 6 and Summarize due Thursday, Work on Expert TA

Wednesday

-

Homework – Read Ch 6 and Summarize due Thursday, Work on Expert TA

Thursday

- Ch 6 Reading Quiz
- Discuss Ch 6

Homework – Work on Expert TA

Friday

- **Test over Chapters 1 - 6 Wednesday. (Study Session Sunday Night 8:30ish??, or Monday??)**
- Solve AP Exam Practice Problem
-

Homework – Work on Expert TA due Monday, Read Ch 7 and summarize for Thursday

Monday**WEEK 8 – Oct 2**

- Turn in homework before school.
- Discuss Ch 6 / Expert TA
- Answer questions about test

Homework – Study for test, Read Ch 7 & Summarize for Monday

Tuesday

- Balloon write up due
- Work sample Extended response problems
- Questions about test

Homework – Study for test

Wednesday

- Ch 1- 6 Test
- Group Multiple Choice after test

Homework – Work on Test corrections

Thursday

- Grade Test

Homework – Work on Test corrections

Friday

- Summary due Ch 7 Monday
- Reading Quiz Ch 7 Monday
- Finish grading test

Homework – Work on Test corrections, Start ch 7 Expert TA due Weds.

Monday**WEEK 9 – Oct 10**

- **Expert TA due 7:50 AM**
- Ch 7 Summaries Due
- Ch 7 Reading Quiz
- Finish grading Test

Homework – Test Corrections due Friday, Expert TA for the people that got a 3 or lower on the test due Friday

Tuesday

- Discuss Ch 7

Homework – Test Corrections due Friday

Wednesday

- g Lab
- Read Ch 8 and Summarize for Monday

Homework – Test Corrections due Friday

Thursday

- Coffee Filter Lab

Homework – Test Corrections due Friday, Read Ch 8 and Summarize for Monday

Friday – End of 9 Weeks

- Expert TA Test Corrections due if you got a 3 or lower on Test and want to bump up your grade one level.
- Test Corrections due

Homework – Read Ch 8 and Summarize for Monday

Monday**WEEK 10 – Oct 17**

- Ch 8 The Expert TA due before school
- Ch 8 Reading Quiz
- Discuss Ch 8
- Read Ch 9 and summarize for Thursday

Homework – Read Ch 9 and Summarize, Ch 9 Expert TA due Monday 7:55 AM turn in notebooks before school

Tuesday

- Whiteboard Coffee Filter Lab
- Flying Bat Lab - Find calculate the tension in the string of the flying object.

Homework – Read Ch 9 and Summarize, Ch 9 Expert TA due Monday

Wednesday

- Flying Bat Lab - Find calculate the tension in the string of the flying object.

Homework – Read Ch 9 and Summarize, Ch 9 Expert TA due Monday

Thursday

- Ch 9 Lecture

Homework – Ch 9 Expert TA due Monday

Friday

- Work on 2005 Mechanics C #2
- Test end of next week Ch 1 – 9

Homework – Ch 9 Expert TA due Monday 7:55 AM turn in notebooks before school

Monday**WEEK 11 – Oct 24**

- Expert TA due before school, turn in notebooks before school
- Discuss with other people presenting Ch 9
- Presentations of Ch 9 to classmates
- Divide up ch 10 for presentations
- Hand out review packet
- *Test on Ch 9 on Monday*

Homework – Read Ch 10 & Summarize, Expert TA due Wednesday of next week**Tuesday**

- Presentations of Ch 9 to classmates
- Start Momentum Lab

Homework – Ch 10 & Expert TA, study for test**Wednesday**

- Momentum Lab

Homework – Ch 10 & Expert TA, study for test**Thursday**

- Review for Ch 1-9 Test
- Work on presenting Ch 10

Homework – Ch 10 & Expert TA, study for test**Friday**

- Start thinking about Gravity Powered Car and how to make it efficient.
- Questions about test
- Test Monday

Homework – Test Monday, Study session Sunday?

Monday**WEEK 12 – Oct 31**

- Ch 1 – 9 Test

Homework – Ch 10 Expert TA, prepare Ch 10 & 11 presentations (include 2 sample problems from the back of the chapter.

Tuesday

- Grade Ch 1 – 9 Test

Homework – Ch 10 Expert TA, prepare Ch 10 & 11 presentations (include 2 sample problems from the back of the chapter.

Wednesday

- Ch 10 Expert TA due before school
- WORK on Reading Ch 11 (Pun intended) and Summarize for Monday
- Work on Presentations

Homework – Test Corrections

Thursday

- Present Ch 10 & 11

Homework – Test Corrections

Friday

- Present Ch 10 & 11
- Discuss Coding?

Homework – Test Corrections

Monday**WEEK 15 – Nov 13**

- Ch 1 – 9 Test Group Test

Homework – Ch 10 Expert TA due Sunday Night,**Prepare Ch 10, 11, & 12 presentations (include at least 2 sample problems from the back of the chapter.****Tuesday**

- Discuss presentations
- Work on presentation

Homework – Ch 10 Expert TA,**Prepare Ch 10, 11, & 12 presentations (include at least 2 sample problems from the back of the chapter.****Wednesday**

- WORK (Pun intended) on Presentations

Homework – Ch 10 Expert TA , Test Corrections**Thursday**

- Present Ch 10, 11, & 12

Homework – Ch 10 Expert TA , Test Corrections**Friday**

- Present Ch 10, 11, & 12
- TIPERS Energy

Homework – Ch 10 Expert TA due Sunday Night, Test Corrections

Monday**WEEK 16 – Nov 20**

- Work on presentations
- Turn in Expert TA work

Homework –

Prepare Ch 10, 11, & 12 presentations (include at least 2 sample problems from the back of the chapter.

Tuesday

- Discuss presentations
- Work on presentation
- Turn in Ch 1-9 test Corrections

Homework –

Prepare Ch 10, 11, & 12 presentations (include at least 2 sample problems from the back of the chapter.

Wednesday

- No School

Homework –**Thursday**

- No School

Homework –**Friday**

- No School

Homework –

Monday**WEEK 17 – Nov 27**

- Discuss presentations
- Present Ch 10, 11, & 12

Homework – Ch 11 Expert TA due Monday Morning,**Tuesday**

- Present Ch 10, 11, & 12

Homework – Ch 11 Expert TA,**Wednesday**

- Present Ch 10, 11, & 12

Homework – Ch 11 Expert TA ,**Thursday**

- Questions on Ch 10 – 12

Homework – Ch 11 Expert TA ,**Friday**

- TIPERS Energy
- Test on Unit 10-12 Dec 8. Which day / time would you prefer a study session on?

Homework – Ch 11 Expert TA due Monday Morning

Monday**WEEK 13 – Nov 7**

- Naval Nuclear Engineer Presentation
- Hand out Photo Contest Rules

Homework – Test Corrections**Tuesday - No School**

- All day PD

Homework – Test Corrections**Wednesday – 2 Hour Delay**

- Present Ch 10 / 11

Homework – Test Corrections**Thursday**

- Present Ch 10 / 11
- Practice AP Exam Questions

Homework – Work on Expert TA Ch 11, due Tuesday**Friday**

- Practice AP Exam Questions
- **Test Corrections due.**

Homework – Work on Expert TA Ch 11

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Monday

WEEK 14 – Nov 14

- Present Ch 4, 10 & 11

Homework – Expert TA Ch 11 due Friday, Extended Response Problem of the Week,

Test on Ch 1 – 11 Tuesday

Tuesday

- Present Ch 10 & 11

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, Expert TA Ch 11

Wednesday

- Energy Lab

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, Expert TA Ch 11

Thursday

- Energy Lab

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, Expert TA Ch 11

Friday

- Turn in Ch 11 Expert TA
- Discuss Ch 13
- Review for Test

Homework – Study for Test

Monday**WEEK 15 – Nov 21**

- Finish Ch 4, 10, & 11 Presentations
- Check for questions about Ch 1 – 11

Homework – Study for Test**Tuesday**

- Marine Recruiter

Homework – Study for Test**Wednesday – No School Thanksgiving Break**

-

Homework – Study for Test**Thursday – No School Thanksgiving Break**

-

Homework – Study for Test**Friday – No School Thanksgiving Break**

-

Homework – Study for Test

Monday**WEEK 16 – Nov 28**

- Ch 1 – 11 Test

Homework –**Tuesday**

- University of Toledo Recruiter

Homework –**Wednesday**

- Take Group Multiple Choice
- Self Grade Individual Extended Response Questions
- Discuss Extended Response grades

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, due Monday, Expert TA due next Thursday**Thursday**

- Work on Multiple Choice Test discussions
- Discuss Extended Response grades and how to be better

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, due Monday, Expert TA due Thursday**Friday**

- Notes on Ch 13

Homework – Read and summarize Ch 13 Newton's Theory of Gravity, due Monday, Expert TA due Thursday

Monday**WEEK 17 – Dec 5**

- Check Ch 13 notes
- Discuss Ch 13
- Sign up for HOPE (<https://goo.gl/jRw8L1>)
- Questions on Expert TA

Homework – Expert TA due Thursday**Tuesday – Out for observations of other teachers**

- Gravity simulations
- Read Ch 12 and take notes on it for Monday
- Ch 12 Expert TA due a week from Thursday

Homework – Expert TA due Thursday, Read ch 12 and take notes**Wednesday**

- Discuss Gravity simulations
- Extended Response Practice 2003
- Questions on Expert TA

Homework – Expert TA due Thursday, Read ch 12 and take notes**Thursday**

- Expert TA due
- Discuss Extended Response 2003

Homework – Read Ch 12 and take notes due Monday**Friday**

- Work on Ch 13 End of Chapter Problems

Homework – Read ch 12 and take notes due Monday, Work on Ch 12 Expert TA

Monday**WEEK 18 – Dec 12**

- Go over solutions to Ch 13 End of Chaptr Problems
- Check Ch 12 Notes

Homework – Ch 12 Expert TA Due Thurs**Tuesday**

- Discuss Ch 12

Homework – Ch 12 Expert TA**Wednesday**

- Discuss Torque Lab
- Work on Extended Response Practice 2004

Homework – Ch 12 Expert TA**Thursday**

- **Expert TA Due**
- Work on Extended Response Practice 2004

Homework –**Friday**

- Work on Torque Lab.

Homework –

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Monday

WEEK 19 – Dec 19

- Ch 12 The Expert TA due before school
- Torque Lab

Homework –

Tuesday

- Finish Torque Lab
-

Homework –

Wednesday

- Former AP Students in to talk to the class

Homework – Work on AP Mechanics Exam

Thursday

-

Homework –

Friday

-

Homework –