Block 1: September 8th and 9th

(FIRST DAY OF CLASS!)

Synchronous:

- Ice Breaker - Getting to know you Padlet
- Intro to AP Physics 1 Powerpoint
- Computer Tasks
- Introduction to the Pi Lab Assignment

Asynchronous:

- Complete the Pi Lab Assignment

Homework:

- Computer Tasks
- Introduction to Distance, Displacement, Speed, Velocity, and Acceleration - Choose one of the following
  - **OPTION 1:** Read Textbook Sections 2.1, 2.2, 2.3, and 2.4
  - **OPTION 2:** Watch and take notes on these videos - Defining Motion (10:57) and Graphing Motion (14:00)
- Summer Assignment

Block 2: September 10th and 11th

(Big ideas in 1-D Motion - Part 1)

Synchronous:

- Video of the Day - VECTOR
- Calculate your age in seconds - and more!
- Pi Lab Breakout Sessions - Review Results, Share Responses, Ask Questions
- QUESTions??? Can You See Your First Homework Set? If you think of one later, ask it on the Discussion Board.
- Brain Break - Danny MacAskill
- Review - Big Ideas of 1-D Motion (Part 1)
- Introduction to GUESS - Problem Solving Format

Asynchronous:

- PRACTICE - Back in the Saddle Problems - Work on these problems during our asynchronous time. If you would like to work with others in a breakout session, I strongly encourage it. I will NOT be taking these up for a grade, but these will give you practice in (a) showing your work using the GUESS method, and (b) working basic kinematic problems. The answers are in BOLD so that you can check your work. And here are Mr. Mott's Solutions if you need a little more help.

Homework:

- **(OLD)** Finish Computer Tasks
- **(OLD)** Summer Assignment
- **(NEW)** Work on QUEST Homework #1 (Help and Assistance)

Block 3: September 14th and 15th

(Big Ideas in 1-D Motion - Part 2 & Video Analysis of a Ball Toss)

Reminders:

- Summer Assignment DUE Monday (9/21) at 11:59 pm - There will be a math quiz next week over this content.

Synchronous:

- Breakout Session Warm-Up - Measurement and Sig Figs - Do you need a REFRESHER over Sig Figs? Check out THIS.
- QUESTions?? About anything?
- More BIG IDEAS in One-D Motion (Part 2)
- Introduction to Analyzing a Ball Toss Using Video Analysis

Asynchronous:

- Video Analysis - Ball Toss - Follow the instructions on the instruction page and then answer the Discussion Questions.

Homework:

- (OLD) FINISH Computer Tasks - If you haven't yet, why haven't you? Let me know if you need help.
- (OLD) Keep Working on QUEST Homework #1 (Help and Assistance)

Block 4: September 16th and 17th

(Big Ideas in 1-D Motion - Part 3)

Synchronous:

- Let's Kahoot! - Sign in with your name (Teacher Version)
- Big Ideas in 1-D Motion (Part 3)
- PRACTICE - Position vs. Time and Velocity vs. Time Graphs

Asynchronous:

- PRACTICE with Position vs. Time and Velocity vs. Time Graphs - Again, this is PRACTICE. It will NOT be collected for a grade, but you should make sure you understand the content for your upcoming quiz. You can find the solutions HERE

Homework:

- (OLD) Quest Homework #1 (Help and Assistance)
- (NEW) Quest Homework #2 (Help and Assistance)
- (NEW) Intro to Kinematic Equations: Pick your preferred method for introduction and take notes
    - **Option 1:** Read Second 2.5 - Motion Equations for constant acceleration One-D Motion
    - **Option 2:** APlus Physics Video: Kinematic Equations (10:55)
        - This is an EdPuzzle so it will have some guiding questions as you go. Please sign in with your real name

Reminders:

- One-D Motion Quiz NEXT BLOCK: Distance, Displacement, Speed, Velocity, Acceleration, and Motion Graphs (nothing we haven't covered)
- Math and Measurement Quiz NEXT WEEK

Block 5: September 18th and 21st

(Kinematic Equations and Group Quiz)

Reminders:

- Math Quiz and Measurement Quiz NEXT BLOCK - Look over your Summer Assignment or check out THESE resources.

Synchronous:

- Warm-Up: Intro to Kinematic Equations
- PRACTICE with Kinematic Equations
- Group Quiz - One-D Motion

Asynchronous:

- Finish up your PRACTICE with Kinematic Equations

Homework:

- (OLD) Finish QUEST Homework #1 (Help and Assistance)
- (OLD) Finish QUEST Homework #2 (Help and Assistance)

Block 6: September 22nd and 23rd

(Big Ideas in 1-D Motion - Part 4 & Math and Measurement Quiz)

Synchronous:

- Song of the Day
- Padlet Warm-Up
- Motion Graph Card Matching (Desmos) (Want more practice? HERE are the cards) (Teacher Version)
- BIG IDEAS in Kinematics (Part 4): Free-Fall Motion
- Grading Your One-D Motion Quiz (KEY)

Asynchronous:

- Optional: VIDEO - Help Creating a Position vs. Time graph from a Velocity vs. Time graph
- Math and Measurement Quiz

Homework:

- QUEST Homework #2 (Help and Assistance)
- Optional: Watch Free-Fall Motion (17:08) if you feel you need more help with free-fall motion.

Block 7: September 24th and 25th

(Linearization and Group Quiz)

Reminders:

- Exam 1 will be on Block 9

Synchronous:

- Data Analysis with the Pi Lab - Part 2
    - Group Work Response Sheet (Blank Template Copy)
- Quiz - One-D Motion
    - You can miss 2 questions without penalty

Asynchronous:

- Finish One-D Motion Quiz
- Finish Pi Lab - Part 2

Homework:

- If you haven't finished your measurement quiz, it is due tonight!
- Finish QUEST Homework #2 (Help and Assistance)
- TEST REVIEW - Worth an additional 5% on your test grade

Block 8: September 28th and 29th

(Reviewing for the Test NEXT BLOCK)

Reminders:

- Exam 1 will be NEXT BLOCK (Block 9)
- If you did NOT complete QUEST #2, you may continue to work on it until Friday for reduced points. (Help and Assistance)
- Questions/Comments about your grade? Complete this FORM.

Synchronous:

- Kahoot Review of One-D Motion - Go to kahoot.it and put in the code Mr. Mott shares with you (Teacher Version)
- Questions about Pi Lab - Part 2?
- Review of Quiz Questions

Asynchronous:

- FinishPi Lab - Part 2 if you haven't already
- Work on the TEST REVIEW - it is Optional But Recommended

Homework:

- TEST REVIEW - Worth an additional 5% on your test grade
- Review other materials for the exam

Block 9: September 30th and October 1st

(1-D Motion Exam)

Synchronous:

- TEST DAY!!!!
    - Formula Sheet

Homework:

- Read and take Notes on Sections 3.1 - 3.3 from the textbook. There's lots of information - focus mostly on the following:
    - Graphical Vector Addition and Subtraction,
    - Calculating Vector Components, AND
    - Analytical Vector Addition and Subtraction.
- Click HERE for optional practice with the Head-to-Tail Method.
- Take this QUIZ over your reading. The quiz must be taken before your next class.