If you know you will be absent from class due AP exams or for other reasons, YOU NEED TO let me know in advance as <u>you</u> will need to schedule make-up for whatever you miss with me. Thank you!

Lab folders due on Wednesday, 5/15/19 by 3:00 PM

Tues. 5/7 *AP Physics 1 and Spanish Language exams*
1) AP Physics exam – if students are in class, I'll answer questions (Mods 3-6) or pilot a resistivity lab.

Weds. 5/8 *AP Literature and AP European History exams*
1) Hand out new syllabus and sign up for rocket project.
2) Begin construction on Rocket #1

Thurs. 5/9 *AP Chemistry and AP Psychology exams*
1) Finish construction on rocket #1 & load engines/recovery wadding
2) "Plop drop" activity introduction

Fri. 5/10 *AP US History, AP Physics 2, and AP Computer Science Principles exams*
1) Rocket #1 launch day (weather permitting)

Mon. 5/13 *AP Biology exam, AP Physics C exam*
1) Rocket # 2 instruction writing day (assembly day for seniors)

Tues. 5/14 *AP Calculus exams*
1) Rocket # 2 instruction writing day (assembly day for seniors) – rocket instructions due by Thursday at 3:00 PM

Weds. 5/15 *AP Language and AP Economics (Macro) exams and **LAB FOLDERS DUE TODAY***
1) Work in class on Sample Circuit Jamboree and lab folders
2) Performance Rubric (seniors lab folder is due this week)

Thurs. 5/16 *AP Statistics exam*
1) Plop drop activity

Fri. 5/17 *AP Econ (Micro) and AP Computer Science A exams*
1) Rocket #2 assembly day (non-seniors)
2) Senior rocket launch and senior Physics graduation

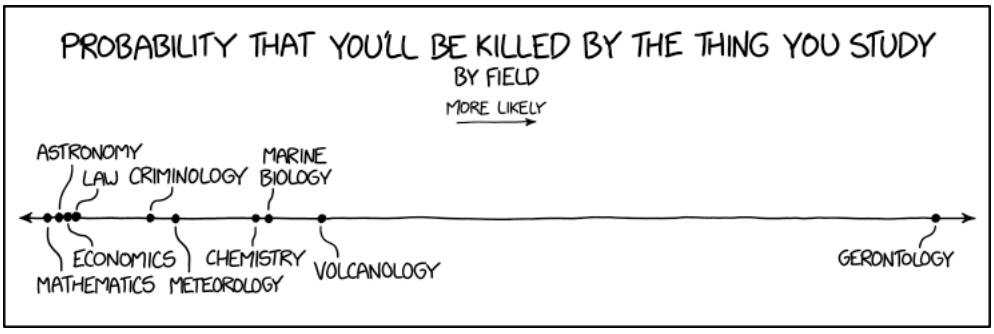
Mon. 5/20 1) Rocket # 2 assembly day (non-seniors) – rockets and instruction evaluations should be completed

Tues. 5/21 1) Check Sample Circuit Jamboree and go over
2) Rocket # 2 final assembly day

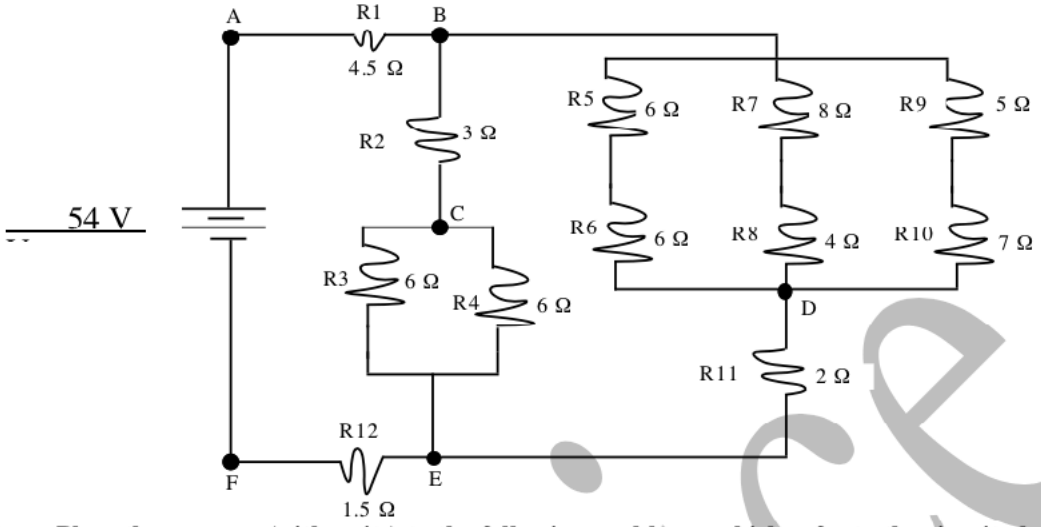
Weds. 5/22 1) Circuit Quiz (big)
2) Rocket prep, feedback, and possibly launch

Thurs. 5/23 1) Rocket # 2 launch day (non-seniors) if not done yesterday or 'A weighty problem"

Fri. 5/24 *Early dismissal*
1) Final course evaluation



Mr. Forrest / A.P. Physics 1 Circuit Quiz (BIG)



Directions: Place the answers (with units) to the following problems, which refer to the circuit above, in the spaces provided at the right. Do the computations mentally if you can, but compute if needed - with your work near the appropriate blank. If you get an answer wrong and do not show work, you cannot earn partial credit. If answers need to be rounded, please no more than 3 digits!

1. What is the equivalent resistance of R3 and R4? 1. _____
2. What is the combined resistance of R2, R3 and R4? 2. _____
3. What is the combined resistance of R5 and R6? 3. _____
4. What resistance would a multimeter measure from B to D? 4. _____
5. What is the equivalent resistance of R5, R6, R7, R8, R9 and R10? 5. _____
6. What resistance would a multimeter measure if placed across B and E? 6. _____
   Think carefully about this one!
7. What is the total resistance of the circuit (from A to F)? 7. _____
8. What is the total current in the circuit? 8. _____
9. What is the potential (voltage) drop across R1? 9. _____
10. What is the potential drop from B to E? 10. _____
11. How much current passes through R2? 11. _____
12. What is the potential drop across R3? 12. _____
13. What is the current in R4? 13. _____
14. How much current passes through R11? 14. _____
15. What is the voltage drop from B to D? 15. _____
16. What is the voltage drop across R11? 16. _____
17. What is the current in *each branch* of the circuit from B to D? 17. _____
18. What is the sum of potential drops across R9 and R10? 18. _____
19. What is the potential drop across R7? 19. _____
20. Find the sum of the potential drops from A to B, B to E, and E to F. 20. _____
21. What is the sum of all currents flowing from B to E? 21. _____