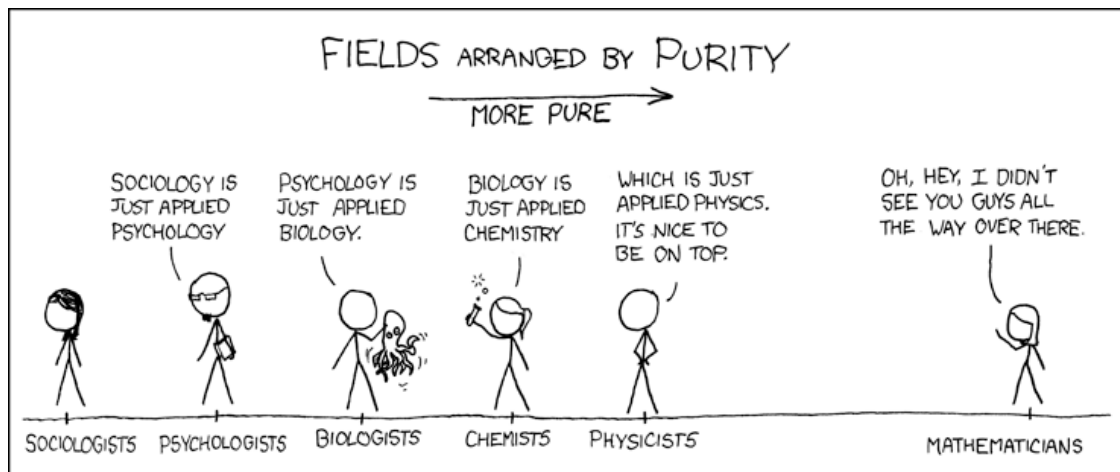


Make sure you are completing your Pathfinder documentation as you go!
Pathfinders due by 8:25 AM on March 1

- Mon. 2/18 1) **QUIZ** – Kirchhoff’s + regular circuit
 2) Lead in discussion about Ch. 35 – Electromagnetic Induction
 3) HW: Read Ch. 33 (all parts) for Wednesday. Things to focus on: Faraday’s Law, Lenz’s Law, inductors, induced current and voltage (ϵ), among other things. We will NOT have a reading quiz for those who come in with one meaningful question per section (ten total). Hopefully, that’ll lead to a good discussion
- Tues. 2/19 1) Ch. 33 discussion (Electromagnetic Induction) and demonstrations [levitating magnet, Eddy currents, motor/generator, solenoid/coil with galvanometer]
 2) HW: Ch. 33 Conceptual Questions due on Friday
- Weds. 2/20 *Mr. Forrest is OUT with Team Physics at Fairfield Elementary (last time for Team Physics)*
 1) Work in class on Ch. 33 Conceptual Questions (due Friday)
- Thurs. 2/21 1) Finish demonstrations with induction if not done on Tuesday
 2) Circuitry Lab 2 – Day 2.5 (should be close to getting through)
- Fri. 2/22 1) Check Ch. 33 Conceptual questions
 2) Circuitry Lab 2 – Last Day
 3) Begin ActivPhysics Electromagnetism (if done with lab)
- Mon. 2/25 1) Finish going over Ch. 33 Conceptual Questions
 2) Sample Ch. 33 problems in class
- Tues. 2/26 1) Work in class on Ch. 33 HW (Problems 4, 11, 13, 14, 29, 31, 36, 43, 47, 50, 64, 65 & 77 (parts A and C only) for Thursday, 2/28
- Weds. 2/27 *Juniors OUT taking ACT*
 1) Work in class on Ch. 33 HW (Problems 4, 11, 13, 14, 29, 31, 36, 43, 47, 50, 64, 65 & 77 (parts A and C only) for Thursday, 2/28
- Thurs. 2/28 *Rescheduled date for Black History Month program*
 1) Check/ go over/discuss Ch. 33 HW
 2) ActivPhysics Introduction (if not done earlier)
- Fri. 3/1 1) Panther Pathfinder testing day!
 2) brief discussion of inductors, LC circuits, LR circuits, and the importance of inductors, and Maxwell’s Laws
- Coming up: Mr. Forrest will be at Sunny Side Up Sun. March 3 – Tues. March 5. Hopefully my last absences of the year!*
- Mon. 3/4 1) ActivPhysics E & M
- Tues. 3/5 1) ActivPhysics E & M → You should be mostly done with this!
- Weds. 3/6 1) LAB: Magnetic Fields in a Slinky Solenoid

We will have a test up through circuits and electromagnetism on Tuesday, March 12. This is purposefully just after the end of the grading period.



CLASSIC THOUGHT EXPERIMENT COMICS PRESENTS - SCHRODINGER'S CAT!!

ACCORDING TO THE COPENHAGEN INTERPRETATION OF QUANTUM MECHANICS, PARTICLES ARE OFTEN IN "SUPERPOSITIONS" BETWEEN TWO DIFFERENT STATES - MEANING THAT UNTIL OBSERVED, THEY ARE NOT REALLY IN EITHER STATE, BUT INSTEAD IN A SORT OF INDETERMINISTIC LIMBO BETWEEN THE TWO STATES!



TO ILLUSTRATE HOW PARADOXICAL THIS RESULT IS, SCHRODINGER IMAGINED A CAT TRAPPED IN A BOX, WITH A BEIGER COUNTER, A HAMMER, A SMALL AMOUNT OF RADIOACTIVE MATERIAL, AND A VIAL OF SOME TOXIC SUBSTANCE! IF AN ATOM OF THE RADIOACTIVE MATERIAL DECAYED, THEN THE HAMMER WOULD CRUSH THE VIAL, RELEASING THE SUBSTANCE AND KILLING THE CAT!



SINCE ACCORDING TO QUANTUM MECHANICS THE ATOMS EXIST IN A SUPERPOSITION BETWEEN DECAYED AND NOT-DECAYED UNTIL OBSERVED, THAT MEANS THAT UNTIL WE OPEN THE BOX AND LOOK, THE CAT IS ACTUALLY IN A SUPERPOSITION BETWEEN BEING ALIVE AND DEAD. UNTIL WE SEE IT, THERE IS NO ACTUAL FACT OF THE MATTER!



WAIT, YOU'RE SAYING THE CAT IS NEITHER ALIVE NOR DEAD, BUT IN SOME SORT OF STATE IN BETWEEN THE TWO?

YUP, THAT'S THE BASIC IDEA, MORE OR LESS..

SO SCHRODINGER FIGURED OUT HOW TO USE THE POWER OF QUANTUM MECHANICS TO MAKE ZOMBIE CATS!!! OH MY GOD!!!

UMM, NO, I DON'T THINK...



MEEOOOWWWW...*

* BRAAAAIIINSSS....