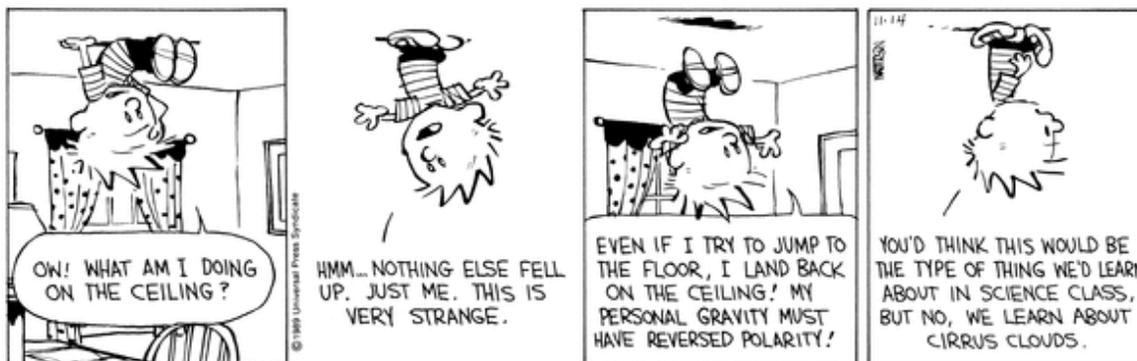


If you will be absent from class due to AIR tests, please let me know in advance – thank you!

QUIZ on Thurs., 4/4 over rotational dynamics

- Mon. 4/1 1) Finish discussion of rotation lab (whiteboards) and collect labs
2) Triple axle (finally)
3) HW: Complete TIPERS rotational HW for Tuesday
- Tues. 4/2 1) Check/ go over TIPERS HW
2) Introduction to Electrostatics (Demo's w. electroscopes, balloons, Van de Graaf, etc.)
3) HW: Read *The Physics Classroom* Static Electricity: Lesson 3 (Electric Force) for a reading quiz on Wednesday
- Weds. 4/3 *Two-hour delay schedule*
1) Reading quiz on static electricity and discussion
2) Go over sample problems (Mods 19-22); Mods 3-6 are encouraged to come in during E/I on Thurs.
- Thurs. 4/4 1) **QUIZ – Rotational dynamics**
2) Electrostatics Concept Builders (Physics Classroom)
3) HW: Complete Concept Builders for Friday
- Fri. 4/5 1) Van de Graaff fun and battery demo
2) Additional samples of Coulomb's Law
3) HW: Work in class on Electrostatics HW → Due Monday
- Mon. 4/8 1) Check / go over electrostatics HW
2) Introduction to circuits
- Tues. 4/9 1) LAB: Captain Sparks – Electrician at Work
2) HW: Read Electrical Instruments handout for a quiz on Thursday
- Weds. 4/10 *ELA 2 (10th grade English) AIR test*
1) Finish lab (Captain Sparks)
2) Go over electrical instruments use (visual)
3) Introduction to Ohm's Law and how to determine electrical power
- Thurs. 4/11 1) Electrical Instruments Quiz
2) Rules and samples for series and parallel circuits – examples done in class
- Fri. 4/12 1) Discuss Monday's Common Assessment and practice free response
2) Begin Circuitry Labs
- Mon. 4/15 1) **AP Physics 1 Common Assessment post-test** (bring a calculator and formula sheet) → we'll discuss the scoring of this ahead of time



Technically, if Calvin was positively charged and the ceiling was negatively charged, this could in fact happen!

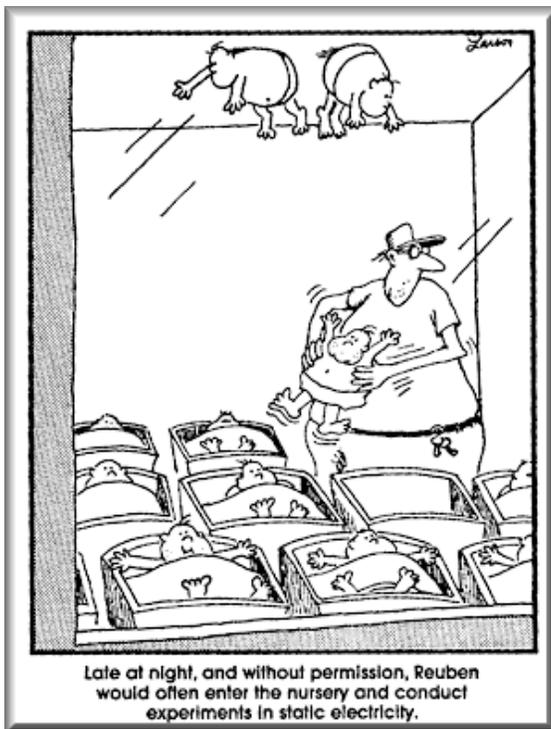
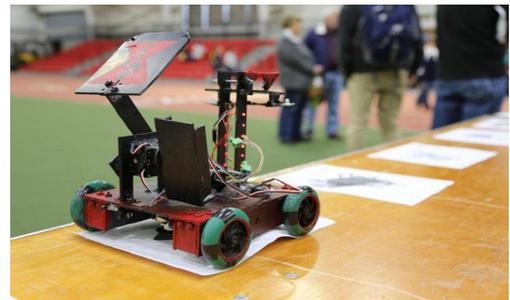
The Ohio State Freshman Engineering Honors program's robot competition is on Saturday, April 6. Although the time shown is from 12-6 PM, normally the public competition is from 4:15-6:15 PM. I'll check it out, but I'd encourage you to go! At least two AP Physics alumni will be competing!

Robotics Competition

Students create robots that complete specified tasks on a course designed and built by the program's teaching assistants. Each year has a different course and theme to give each class of students a unique experience in applying their knowledge and skills to a simulated real-world situation. The 2018 competition challenges the teams to prepare a pit stop area for an upcoming car race.

As part of their coursework, teams of four students work for approximately 8 weeks designing, building, coding, and documenting autonomous robots to meet the challenge. The project culminates with this final public competition, an in-class oral report, and a thorough documentation package.

At the competition, robots have up to 2 minutes to complete the tasks on the course, and points are associated with each task. All robots compete in three round robin matches, where 3 or 4 robots run simultaneously, and those accumulating the most points are recognized for being the most consistent robots. In the case of a tie, time is used as a tie-breaker. For the head-to-head competition, the teams are seeded based upon previous in-class performance and attempt to advance through a tournament-style bracket. Four robots compete at a time, with only the highest-scoring team advancing to the next round. Again, in the case of a tie, time is used to determine a winner. The robots who make it to the "final four" receive special recognition.



2018 FEH Honors Robot Competition
Saturday, April 6, 2019, 12:00 pm (round robin) and
4:15 pm (head-to-head)

Venue: Davis Gymnasium, Recreation and Physical Activity Center (RPAC), 337 Annie and John Glenn Ave