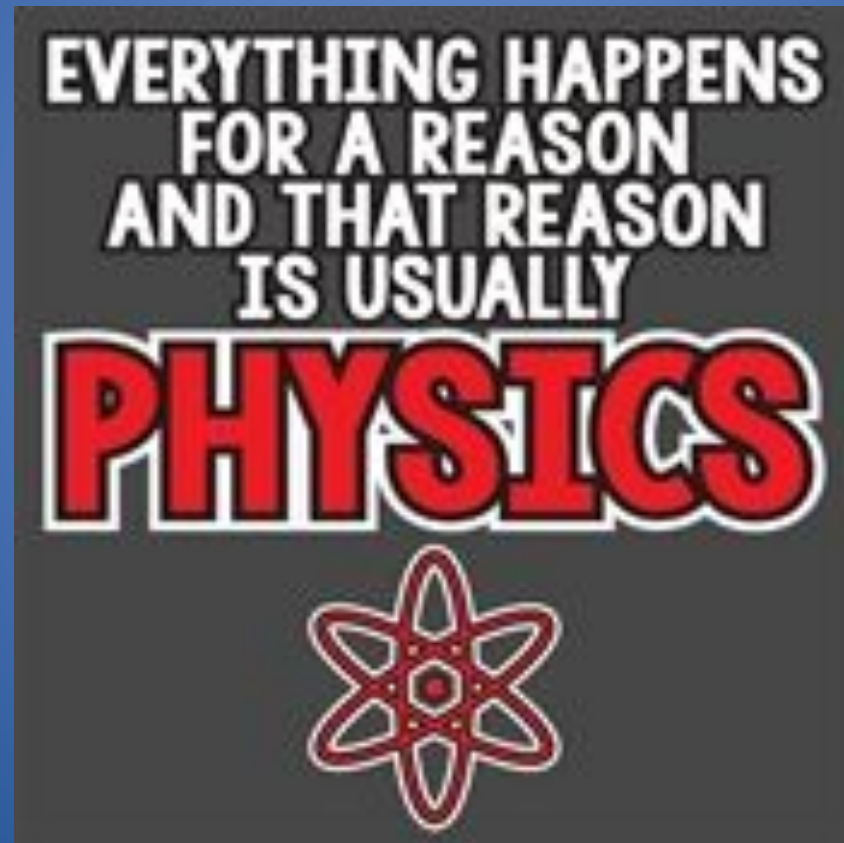
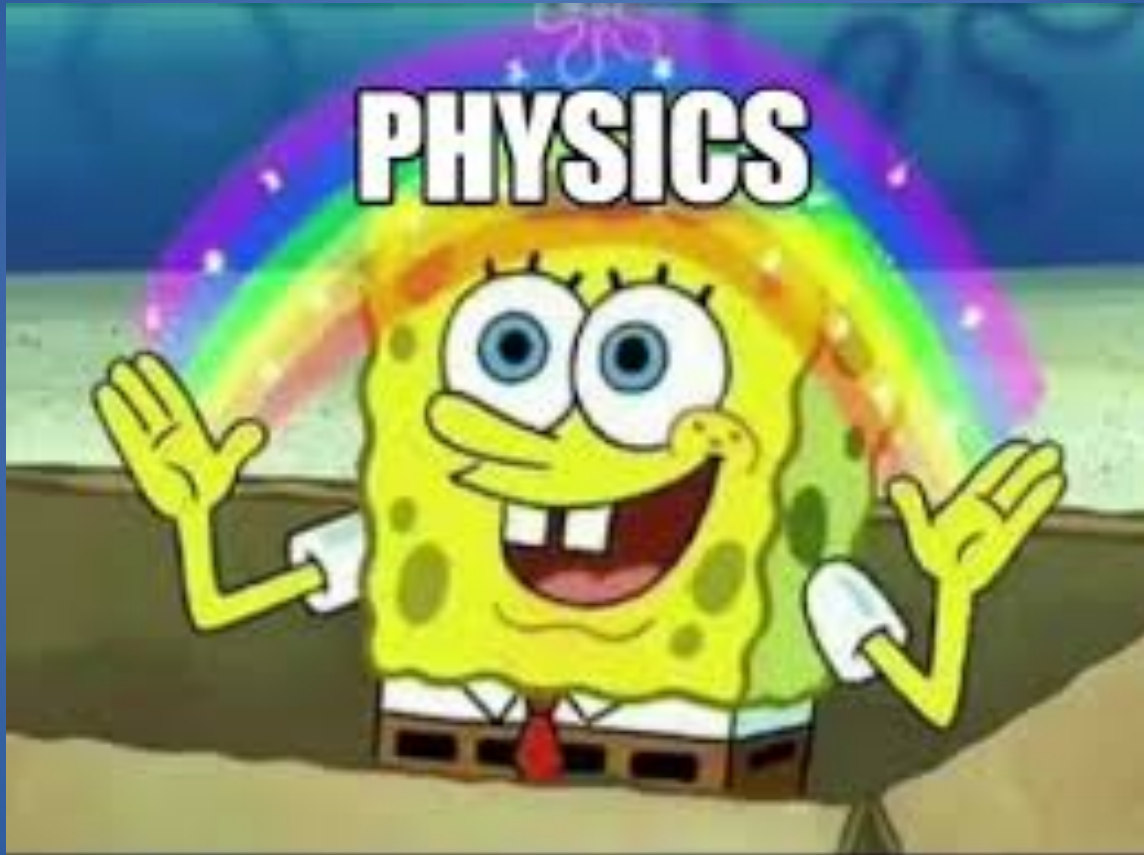


# CHS Science Program



# !!Freshman!!



Honors Physics, Physics, Foundations of Physics

# All Freshman Physics

- Forms the foundation for understanding all science
  - Design lab experiences
  - Gather data
  - Graph data to determine relationships between variables
  - Verbally present findings to class
  - Develop models to explain data expressed verbally, diagrammatically, graphically and algebraically.
  - Focus is on energy and the mechanics of motion under the influence of a gravitational field.

# Recommendations

- Reading and Writing
  - Scholastic Reading inventory (SRI)
  - PSAT: Evidence Based Reading and Writing
- Math
  - NWEA (Fall and Winter administration)
  - PSAT
  - 9<sup>th</sup> Grade Math Course Placement
- Science
  - PSAT
  - Science Reasoning Test

# Recommendations (con't)

- 8<sup>th</sup> Grade Teacher Assessments
  - Study Skills and Tenacity
  - Independence and Comfort with Deferred Closure
  - Curiosity and Problem Solving
  - First Semester Grade
- Discussions with 8<sup>th</sup> grade team, 9<sup>th</sup> grade teachers and department chair.
- Placement important for success and maximized learning.

“Physics is the rules of the universe, you’ll play by them your whole life.” – Doc Schuster



Why science teachers  
should not be given  
playground duty.



# 9<sup>th</sup> Grade Elective

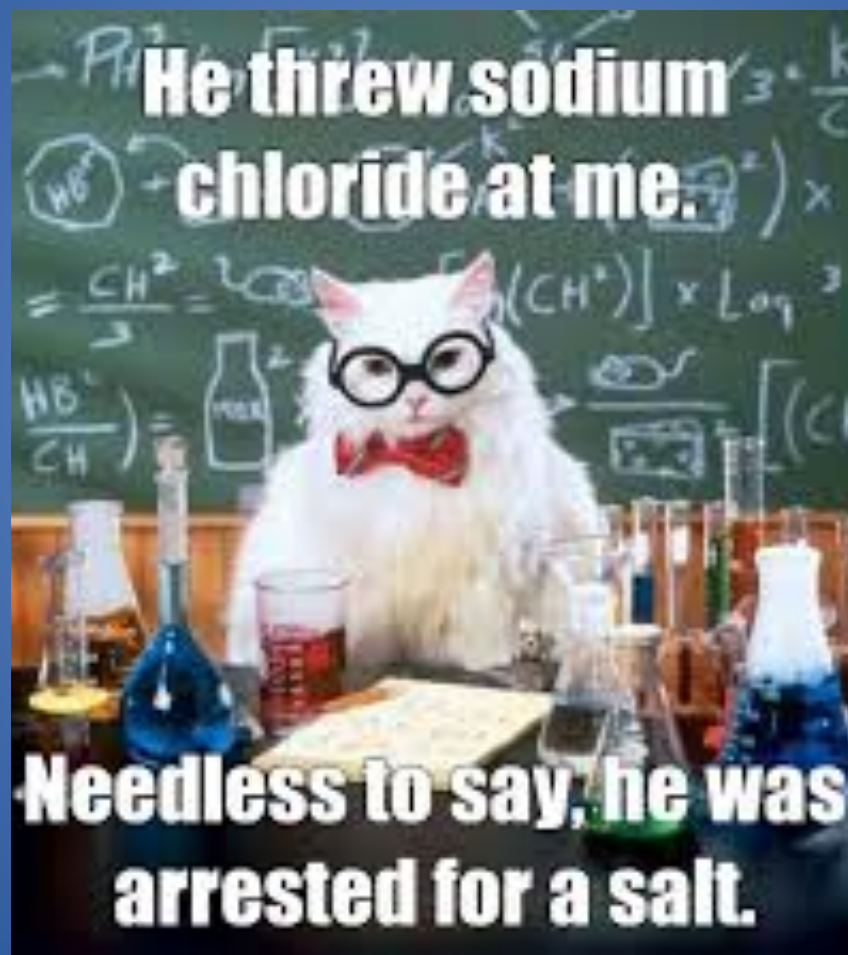
- Elective: Principles of Biomedical Science
  - Integrated Biology, Chemistry, and Medicine
  - Ongoing case study
  - Laboratory investigations

**DON'T DRINK WATER WHILE  
STUDYING. BECAUSE  
CHEMISTRY SAYS THAT**



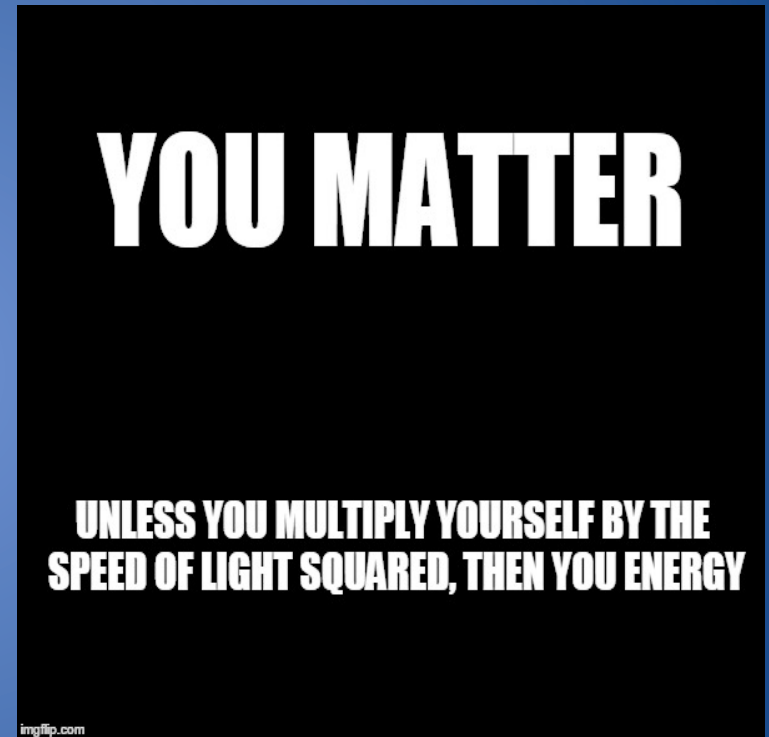
**CONCENTRATION DECREASES  
ON ADDING WATER**

# Sophomore Year: Chemistry



# Chemistry

- Focus on the interactions of charged particles (protons and electrons) under the influence of electromagnetic fields. Aka – more physics!
- Forms the foundation for understanding Biology

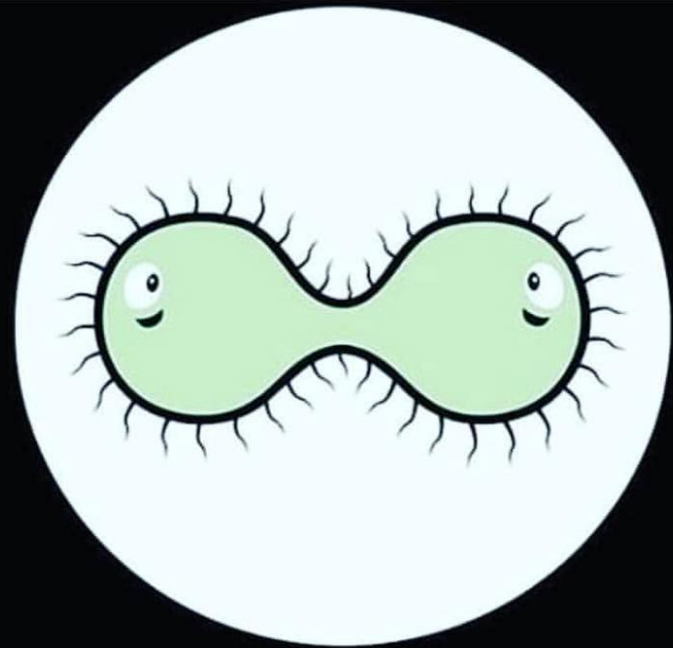


# Sophomore PLTW Elective

- If students have taken Principles of Biomed Science, they can take Human Body Systems in 10<sup>th</sup> grade.
- Work up interesting real world cases, often role-playing biomedical professionals.

# Junior and Senior Years

- Biology: Chemistry & Physics applied to Life
- AP Electives
  - Biology
  - Chemistry
  - Physics
  - Environmental Science
- Semester Electives
  - Astronomy
  - Evolution
  - Forensic Science
  - Plant Science
  - And many more!



## Biology

the only science where  
**division** and **multiplication**  
mean the same thing

# Senior Year

- Students take electives in which they have the most interest.

