
Intro:

1. Something that
    1. was surprising,
    2. was disappointing,
    3. and was exciting

ft. bron? #why.

oml we did **three intros each.**

What we are learning:

> "best way to learn is to teach"

ie. ask peers for help, not barak.

- Physics tried to describe things completely with math, unlike other sciences which use statistical models.
- Semester one:
    - kinematics!
    - Projectile motion
    - Dynamics!
    - Energy (defines all of physics, but we don't really know what it is)
    - Momentum
    - Maybe: rotational motion
- Around 30 min per class

Grading:

- Aim for profs. Profs are an a. But ofc, go for exemplery!
- Lots of quizzes

The map of physics

- Classical
    - Newtons Laws of motion and universal gravitation
        - Also worked on optics,
            - Waves and cosmology and astrophysics
    - Electromagnetism
    - Classical and fluid dynamics
    - Fluid dynamics
    - Chaos Theory
    - I'm not going to take notes in this
    - ^ in the 1900s

- Relativity
    - Special relativity
        - Light is at a constant speed to all viewers
    - General relativity
- Quantum Physics
    - Nuclear physics
    - Particle physics
    - quantum field theory | ties in with special relativity
- The Chasm of ignorance
    - we can't connect general relativity to quantum physics
    - Also, dark matter and dark energy and such