

## 1. Intro:

## (a) Something that

- i. was surprising,
- ii. was disappointing,
- iii. and was exciting

*ft. bron? #why.*

oml we did **three intros each.**

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## 1 | 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

### 1.0.1 | Grading:

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

## 2 | 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

Black = 101 Red = 201