

1. Intro:

(a) Something that

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

ft. bron? #why.

oml we did **three intros each**.

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