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 exemplery!
- 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