Final Project:

↱ that speeds up or slows down an object

WORK: Force applied to a moving object (in same or opposite dir.)

POWER: How quickly work is done

ENERGY: Ability to do <u>work</u>

→ Design / build

→ Programming / Arduino

Build a Launcher:

- Size ~ around R. G. M.
- Target = 15 feet
- Locked before launch
- Reasonable complexity
  - Gears/polleys
- Well-designed & built

Specific Tasks:

- Hit a piezo sensor with a stryofoam ball (15 feet)

- Create a game

- Analyze work, power, and energy using your launcher

- Program Arduino with piezo sensors/LED's

- Design with SolidWorks

INDIVIDUALLY:

either

Design launcher in SolidWorks

Finish

Make sketches on paper (high quality) & create one component in SolidWorks