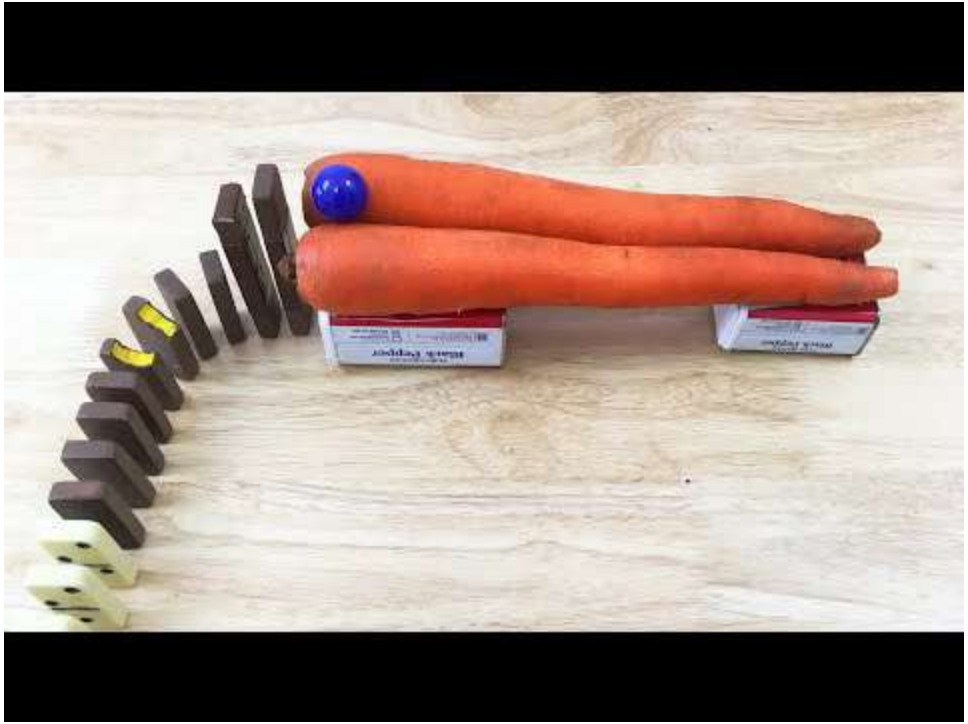
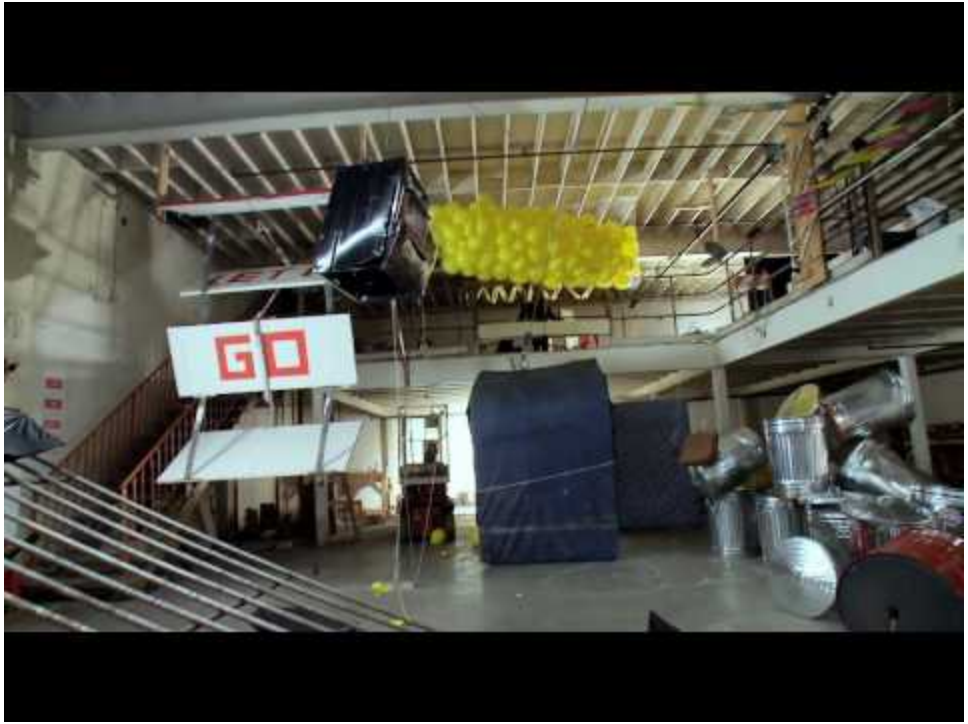
Rube Goldberg Project

What is a Rube Goldberg Machine?

- Complex set of steps to achieve a goal
- Each step must affect the next step
- What does a “step” mean...

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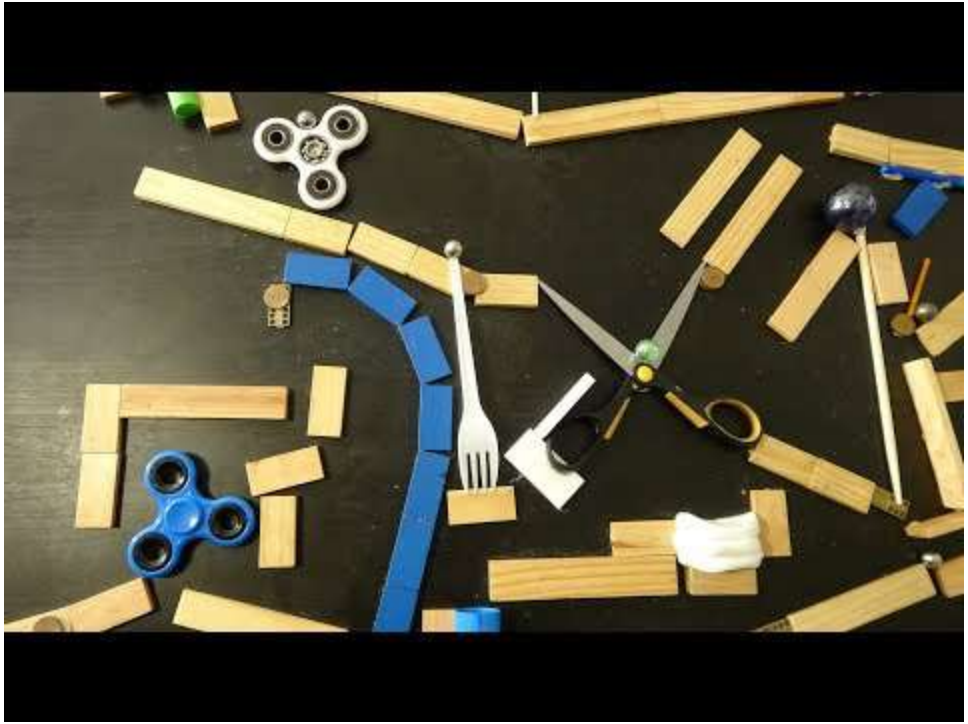

Our Rube Goldberg Requirements

- 8+ steps (remember what a step is)
- Must be in your designated space
- Must be taken down every day
- Cannot mark on the floor or tables
- Materials can be used from the community resources, however you can bring in your own
- Groups of 2-3 (you cannot work alone)

Schedule

				31 Rube Goldberg Introduction Groups
3 Rube Goldberg Planning	4 (Wentzloff out) Rube Goldberg Planning	5 Rube Goldberg Plans Due Rube Goldberg Creation	6 Rube Goldberg Creation and Practice	7 Rube Goldberg Creation and Practice
10 Rube Goldberg Creation and Practice	11 **Hour 1 Final** **Hour 1 Presents** Rube Goldberg Creation and Practice	12 **Hour 2 and 3 Finals** **Hour 3 Presents** Rube Goldberg Presentation	13 **Hour 4 and 5 Finals** **Hours 5 Presents** Rube Goldberg Presentation	14 **Hour 6 and 7 Finals** **Hour 6 and 7 Presents** Rube Goldberg Presentation

Proposal: Due Wednesday

- ❏ To scale (as much as possible) diagram of your proposed Rube Goldberg with labeled steps (numbered and explained). It must be realistic and possible for you to create in 4 days of practice and planning.
- ❏ All materials listed you need to use

Building and Practice Days

- ❏ You will work on your Rube Goldberg machine step by step. Step 1 to 2 works, Step 1, 2 and 3 works, etc.
- ❏ You must measure and plan exactly what you need in your scale drawing as you go. You cannot mark anything on the tables or floor with tape or markings
- ❏ Write down and practice your presentation on the day of the final. You will practice with your teacher on Friday or Monday before your final.

Day of Final

- ❏ You will have 30 minutes to set up your machine and practice.
- ❏ You must have your scale drawings to show to your teacher and class
- ❏ Presentation:
  - ❏ Explain each step and its cause and effect properties
  - ❏ How you use scale and proportion to create your design
- ❏ You will execute your Rube Goldberg machine (and it should work the first time!)

Friday Goals

- Choose group and tell teacher
- Begin brainstorming materials you want to use
- Brainstorm steps you want to do (they don’t have to work together… yet)

Hour 1 Groups

1. Ryan, Sage
2. Jenna, Hannah, Chris W
3. Paige, Nikita
4. Becky, Abby, Kennedi
5. Robert, Aditiya, Shane
6. Isaac, Alex, Aaron
7. August, Christian B, Michael
8. Ramiyah, Jeff, Christian S
9. Jon

Hour 5 Groups

1. Maurice, Sam, EJ
2. Quianna, Amanda, Octavia
3. Drew, Nick
4. Juni, Krystal
5. Desiree, Michale

Hour 6 Groups

1. Diana, Audrey, Nicole
2. Jason, Alan, Jack
3. Leo, Jasen V, Bayron
4. Rob, Jayden
5. Joey, Zain
6. Brandon, Cierra
7. Njeri

Due Wednesday Beginning of Class

1. Supply List on GC
2. Supply List with Specific Quantities
3. Detailed Drawing of Rube Goldberg Project
    a. Collision/energy requirements labeled
    b. Approximate distances between objects
    c. Each step labeled