

The Rube Goldberg Machine assignment, due October 15th

(assigned to friends four years and older, but younger friends can also send over their videos!)

Hello, dear Parents and Children,

It's time for our annual Rube Goldberg project! Your children have been studying simple machines such as ramps/inclined planes, wedges, levers, pulleys, wheels and axels, and screws. They will even construct their own small Rube Goldberg machine at school in a group next week.

We will use our knowledge of simple machines to design a Rube Goldberg machine. Rube Goldberg machines are fantastical, complicated inventions that help meet simple needs or wants.

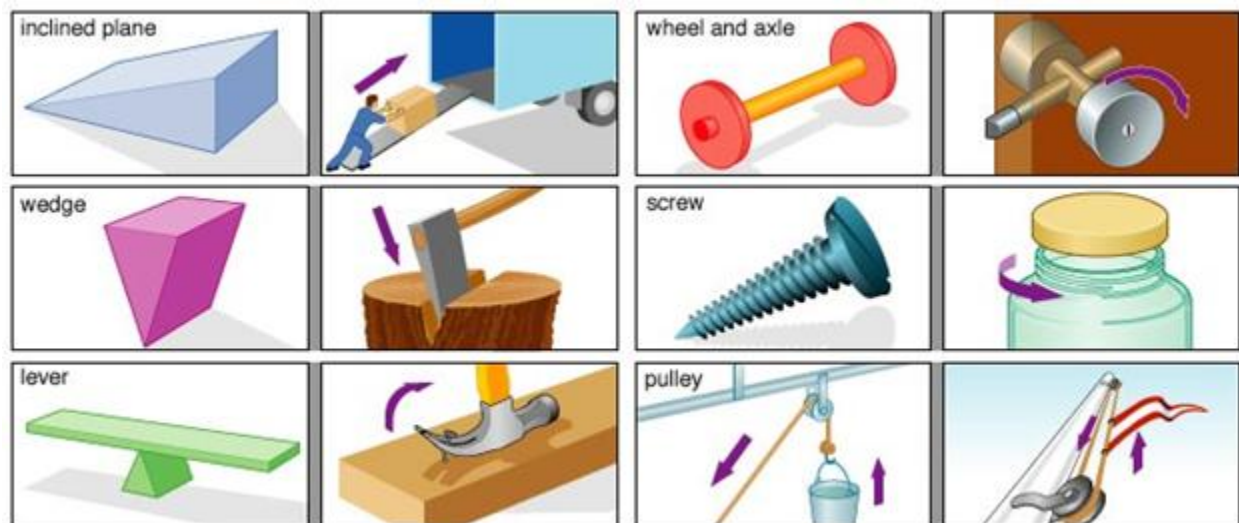
For inspiration, watch this gentleman serve himself (and his child) a piece of cake: <https://www.youtube.com/watch?v=aullGqEyTm8>

Here's a young student who designed his own Rube Goldberg machine: <https://www.youtube.com/watch?v=OHwDf8njVfo>

Friends, can you find examples of simple machines used in these videos?

You will think of a simple need/want you would like help with and draw a picture of your Rube Goldberg machine meeting the demands of that problem.

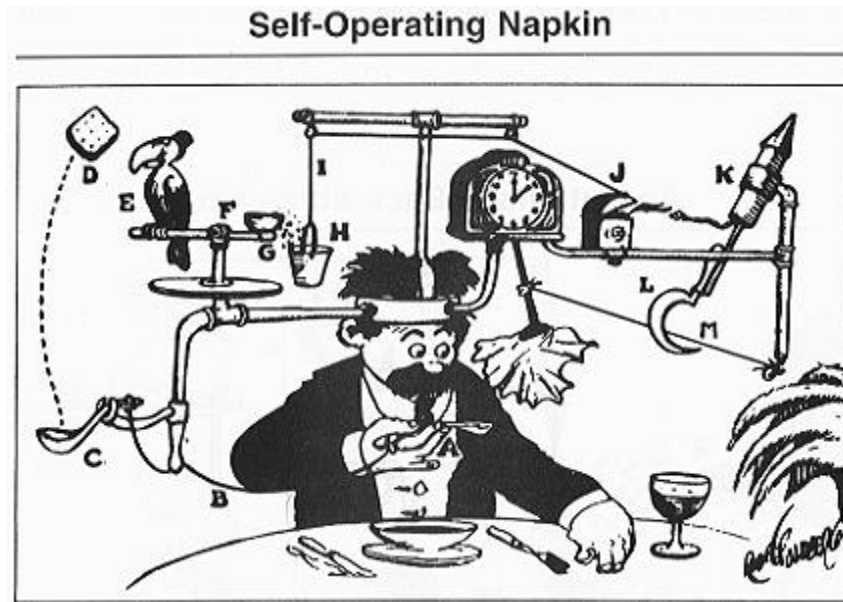
Here's a picture of each simple machine just in case they need a visual reminder to help design their project:



1. Think about what simple need or want you would like help with. This need could be something like turning on a switch, tipping over salt on your food, pushing a button, etc.

2. Think about what materials you will need to create this machine. In the second video with the young student, he used things that you probably have around your house. Is there anything that you might throw away or recycle this week, such as water bottles or paper towel rolls, that you could use for your machine?

3. Design and plan your machine by sketching your ideas out on paper first. Rube Goldberg, the creator of these fantastic machines, was an amazing cartoonist! Here's his example of a self-operating napkin:



4. Please record your Rube Goldberg machine in action and email it to admin@marimontmontessoripreschool.net!

Drawings, videos, and/or pictures are due by October 15th. If you need help or have any questions, please feel free to email me.

I hope you all have a wonderful time!