

# STEM

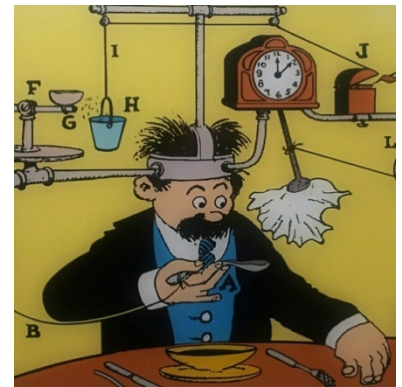


## Rube Goldberg Machine

What is a Rube-Goldberg machine? It is a machine designed to do a very simple task in a very complicated way. Think dominoes, string, falling objects, marbles, ramps, kitchen utensils, wind-up toys and other random bits and pieces all set up in a big chain reaction.

If you want to see some Rube-Goldberg machines in action here are a few links to get you started:

- How to pass the salt - <https://www.youtube.com/watch?v=nORRgU8sGdE>
- The page turner - <https://www.youtube.com/watch?v=GOMIBdM6N7Q>
- The dinner feeding contraption - [https://www.youtube.com/watch?v=dsZPOiSWj\\_A](https://www.youtube.com/watch?v=dsZPOiSWj_A)



### Plan

1. Figure out what the challenge is going to be. Is this a Unit competition? Are there going to be judging criteria? Does your machine have to achieve a certain task at the end?
2. Start brainstorming ideas for your machine. What materials will you use? Draw a plan of your machine.
3. Safety check. Make sure an adult has checked your plan and you have considered and eliminated any risks before you start constructing.

### Do

1. Start building your machine.
2. Test each part as you go and make changes if you need to.
3. Film your final machine in action or show it live at your online meeting.

### Review

1. What did you enjoy most about the challenge?
2. What have you learned?
3. What would you do differently next time?