

@ HOME SCIENCE DISCOVERY MISSIONS – RUBE GOLDBERG MACHINE (*cause/effect*)

What Do We Need?

- Your imagination! (*Also, you can get inspiration from online sources*).
- Choose a task that your 'machine' would accomplish
- Collect necessary materials from things available at home

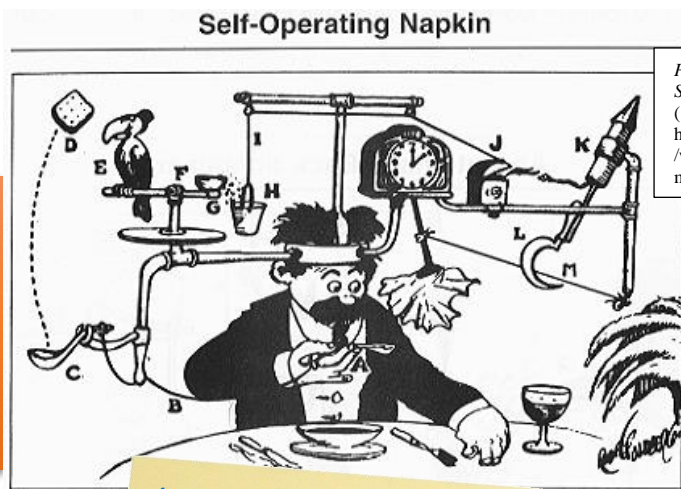
Protocol

1. Collect your materials (e.g., old toys, dominoes, marbles, anything available!)
2. Start experimenting with simple tasks using the materials – be creative!
3. Clarify your plan: remember the task your machine will accomplish. Imagine the chain of events that could lead your machine accomplish its task.
4. Test it and deploy it!



YOUR MISSION REPORT

- Where can you identify cause/effect in nature?
- How is this important in your life?
- Where do you see science in this mission?



Professor Butts and the Self-Operating Napkin (1931). Image source: https://en.wikipedia.org/wiki/Rube_Goldberg_machine



Did you know?
The butterfly effect refers to systems in which a small change in one state result in large differences in later states

Learn more!



Video here:
<https://tinurl.com/yady3t8x>

Student feedback - How did you like this mission?

not at all
 not much
 a bit
 liked it
 liked it a lot
 liked it best

Family feedback - How did you like this mission?

not at all
 not much
 a bit
 liked it
 liked it a lot
 liked it best

Did you use the 'Learn more!' resources? Yes No

What was good/bad about this mission?

