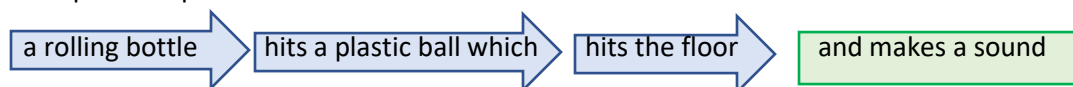


Rube Goldberg Machine

You've probably seen a Rube Goldberg machine. They're these set-ups that involve a lot of complicated steps (like rolling balls, tumbling dominoes, ramps, pulleys, etc.) that end up doing a simple task that could have really been done much more easily by just doing the task.

Your job is to create a Rube Goldberg machine that makes some kind of sound. Try for at least 2 steps.

Here's a simple example:



You can make it more complicated by increasing the number of steps and changing what makes the sound.

Tinker Labs has a great page that explains a bit about who Rube Goldberg was, gives some example materials (I wouldn't use the mousetrap without adult help!), and has some great video examples including one from Sesame Street, some that kids have built and what it claims is the world's largest.

<https://tinkerlab.com/engineering-kids-rube-goldberg-machine/>

The two machines below aren't exactly Rube Goldberg machines, but they are machines, and they are marvelous, and they would have been extremely complex to build, with the end result being something that a musician could have done easily with the usual musical magic (that would be practicing!)

Wintergatan Marble Machine <https://www.youtube.com/watch?v=lvUU8joBb1Q>

Bach Jesu Joy of Man's Desiring Wooden Xylophone. This Mental Floss webpage give some background on the making of the xylophone (and a video) and has the video of the machine in action.

<https://www.mentalfloss.com/article/73112/playing-bach-giant-forest-xylophone>