

CHAIN REACTION MACHINE

Challenge: Make a “machine” that accomplishes an easy task (i.e. moving a box of crayons) in a **SUPER** complicated way that involves **wayyyyyy** too many steps and uses common household items - picture dominoes falling, marbles racing and more!



- 1 Start by identifying your goal: what is the simple task you want your machine to do? _____

Ideas: turning a page in a magazine, opening your bedroom door

- 2 Collect your tools: what items do you have around the house that you can use in your machine? _____

Ideas: marbles, markers, rubber bands, toilet paper tubes, plastic cups, tape, pens, crayon boxes, etc.

NEXT, BUILD!

Start playing around with the items you gathered - how do they move? Do they roll well? Or maybe you can stack them in a line like dominoes! How can you get them to collide with one another to keep moving?

The name of the game is **PRACTICE** - just keep experimenting until you have a machine that does what you want in a ridiculously absurd way! And if you get stuck, go online and look at what other people have built for inspiration.

FUN FACTS

This type of machine is also called a “Rube Goldberg Machine”

This name comes from a cartoonist who would feature convoluted & complex contraptions in his work!

There’s an online group that holds Rube Goldberg contests

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