



Introducing Rube Goldberg Machines



Azoozee's new series *Jiwi's Machines* will inspire you to get engineering this Science Week to create crazy contraptions and experiment with simple machines!

What is a Rube Goldberg Machine?

Rube Goldberg Machines are a fun and complicated contraption which can carry out a simple everyday task. They rely on common mechanics such as pulleys, levers, incline planes and wheels and axles. Each part of the machine impacts the next part creating a chain reaction. The more steps in the machine the more impressive it becomes. They are named after their inventor who was a cartoonist and loved to come up with wacky ideas for machines.

Where can I see one in action?

On Azoozee! We are celebrating Science Week with a fantastic new series called *Jiwi's Machines* where the star of the show engineers a series of amazing Rube Goldbergs which will no doubt inspire you to create your own! Joseph, the kinetic artist has been working on his Rube Goldberg machines since he was 6 years old, so he has had many years to perfect his creations!

What do I need to make a Rube Goldberg Machine?

All kinds of everyday items can be used to create a Rube Goldberg Machine. If you are planning on engineering your own Rube Goldberg, why not use materials that are easy to find around the house such as cardboard boxes, empty cans, kitchen rolls, plastic containers, string, books, balls, building blocks and toys. Most of all, creating Rube Goldberg Machines means lots of **persistence and practise!** You

might have to experiment with different materials and approaches to get the effect you want, but this is part of the fun!

Get Engineering!

Time to get creative and invent your own Rube Goldberg Machine. It might help to collect your materials first and sketch your ideas down on a piece of paper. Why not try one of the Azoomee Rube Goldberg Challenges?

Can you make a Rube Goldberg that:

- Waves a flag
- Waters a plat
- Draws a line on paper
- Drops a ball into a cup
- Closes a door

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