

What is the Laughing Automata Machines workshop?

iOi STEAM Live is a programme run by the educational charity, the Institute of Imagination (iOi), which helps children build future critical skills as well as developing their literacies in digital, design and engineering concepts, and scientific enquiry through STEAM.

In this Laughing Automata Machines workshop by the iOi, your class will invent, design and build wire crank mechanisms to explore the neuroscience of laughter, activating our brain's 'feel-good' transmitters and releasing our 'feel good' hormones to bring laughter and joy.

Preparation for Broadcast

- Children in KS1 will be working on groups of 4, KS2: in pairs
- Gather all the craft materials you will need
- Pre-cut the wire roll into 25 cm pieces for every group/ pair
- For KS1, pierce two holes in each cup with the wooden skewer on opposite sides about half way up the cup so the wire can go straight through it
- Access the Streamyard link to the live broadcast (this was emailed to the teacher who signed your class up to the programme) and ensure that your audio and visual are working. If you want to take part in our Show and Tell session at the end, test that your camera works.

Resources you will need:

You have received an envelope from the Institute of Imagination with:

- Paper cup (1 per group/ pair)
- Wooden sticks (2-3 per group/ pair)
- Wooden skewers (1-3 per group/ pair)
- A6 adhesive foam sheet (1 per group/ pair)
- A5 foam sheet (1 per group/ pair)
- Beads (2 per group/ pair)
- Wire (25cms per group/ pair)

You will also need:

- Pens
- Scissors
- Tape
- Glue
- Card
- My Invention Idea and Crank Motion resources*

*you can print these by visiting
<https://bit.ly/IMIYInvention>

<https://bit.ly/IMIYcrank>

Live Broadcast Schedule

KS1 workshops will take place from 9:15 to 10:30am (GMT)

KS2 workshops will take place from 13:30 to 14:45pm (GMT)

9:15 - 9:25	13:30 – 13:45	Introduction to Imagine Me, Imagine You with interactive Q&A
9:25 - 9:35	13:45 – 13:55	Introduction to Laughing Automata Machines, exploration, and techniques

9:35 - 10:15	13:55 – 14:35	Your class will experiment and create Laughing Automata Machines
10:15 - 10:30	14:35 – 14:45	Show & Tell. Choose 2 pupils from your class to share their machines

Got any questions? Contact us at schools@ioi.london