



At-Home



Build a real Robo-Arm

What You Need:

- hole punch
- 2 large paper clips
- markers
- 1 medium brass fastener (1 in.)
- paper cup
- smooth string or fishing line (39 in.)
- 1 straw (cut into 1-in. [2.5-cm] lengths)
- 1 strip of corrugated cardboard (about 2 x 4 in.)
- 1 strip of corrugated cardboard (about 2 x 8 in.)
- tape

How to Make it:

- Plan your build: Sketch or lay out your materials in assembly order.
- Connect the cardboard strips so they move freely using a brass fastener.
- Remember: This is a lever system, your cardboard is the lever, and the brass fastener is the fulcrum.
- Tip: If the arm doesn't move easily, loosen the fastener to reduce friction.

Why it Works:

- The Robo Arm works because it uses a simple lever system allowing the sections to pivot and mimic real joint movement.

Video Reference: <https://pbskids.org/designsquad/build/robo-arm/>

