Linkages

Cardboard levers and pivots that make creatures move.



SCREEN-FREE | AGES 5 TO 14 | ABOUT 45 MIN | MAKE AND KEEP

WHAT PARTICIPANTS MAKE

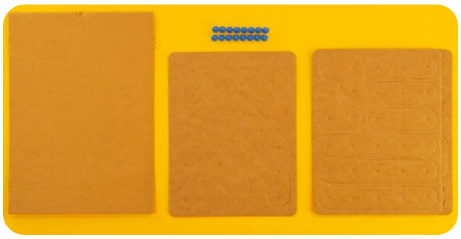
A moving cardboard contraption built from four classic linkage types, disguised as an animal or machine.

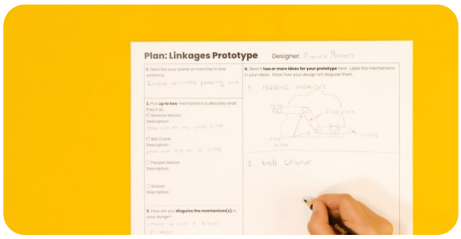
HOW IT WORKS

Campers connect cardboard levers with pivot fasteners to build reverse-motion, bell crank, parallel-motion, and scissor linkages. Then they invent arms that extend, claws that grab, or fish that swim, and design a story around the mechanism. It suits kindergarten through middle school.

CAMPERS EXPLORE

Mechanical linkages (reverse motion, bell crank, parallel motion, scissor); levers and pivots; force and motion transfer; the engineering design process; storytelling through mechanism design







PACK SIZES

PACK	CAMPERS	SKU
Small Group Pack	10	G3 LINK 010
Class Pack	25	CL LINK 025

Every camper gets an individual reclosable kit with a printed visual guide. Scissors optional.

Educator video
12:44 min

Educator guide

Standards connections (from the educator guide): NGSS K-PS2-1, K-2-ETS1-2, 3-PS2-1, 3-5-ETS1-3, MS-PS3-5, MS-ETS1-2. Common Core RI.K-2.7, SL.K-2.1, RI.3-5.3, W.3-5.3, RST.6-8.3, SL.6-8.1, K.MD.A.1, K.G.A.1, 3.MD.B.4, 4.OA.C.5, 6.RP.A.1, 7.G.A.2.