Drawbots

A vibrating machine that scribbles its own art.



SCREEN-FREE | AGES 7 TO 14 | ABOUT 60 MIN | MAKE AND KEEP

WHAT PARTICIPANTS MAKE

A battery-powered bot on marker legs that wiggles across paper and draws swirling doodles.

HOW IT WORKS

Campers build a structure on three marker legs, close a battery and motor circuit, and add an unbalanced weight so the vibration drives the bot to draw. Small changes make big differences, so campers test, take apart, and rebuild to change how their Drawbot moves. It teaches circuits, energy transfer, and iterative design.

CAMPERS EXPLORE

Closing an electric circuit; unbalanced weight and vibration; energy transfer (electrical to mechanical); the engineering design process; iterative redesign







PACK SIZES

PACK	CAMPERS	SKU
Small Group Pack	10	G2 DRAW 010
Class Pack	25	CL DRBT 025

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

Educator video
8:25 min

Educator guide

Standards connections (from the educator guide): NGSS K-PS2-1, K-2-ETS1-2, 3-5-ETS1-1, 3-5-ETS1-3, MS-PS3-5, MS-ETS1-2. Common Core RI.K-2.7, SL.K-2.1, RI.3-5.7, W.3-5.2, RST.6-8.7, W.6-8.1, K.MD.A.1, 1.G.A.2, 3.MD.B.4, 4.MD.A.3, 6.RP.A.3, 7.G.A.2.