

# 16 ENGINEERING BUILD Challenges for Kids



Anywhere Learning  
MEANINGFUL LEARNING, WHEREVER YOU ARE



## Quick Builds

- Build the tallest tower from spaghetti and marshmallows
- Design a paper airplane that goes the farthest (try three designs)
- Build a craft-stick bridge that holds a book
- Engineer a foil boat that carries the most pennies before sinking
- Build a catapult from a spoon rubber band and cup
- Design a container that protects an egg from a one-story drop

## Real Engineering

- Build a working weather station with three homemade instruments
- Engineer a solar oven that melts chocolate
- Design a load-bearing chair from cardboard you can sit on
- Design a slide for a toy car (steeper equals faster but does steeper equal better)
- Build a fort that holds a kid inside it

## Bigger Project

- Build a marble run on a wall using cardboard tubes and tape
- Build a working trebuchet from kitchen materials
- Build an insulated cup that keeps ice frozen longest
- Build a wind-powered cart that rolls across a table
- Design a kinetic sculpture that moves under wind or gravity

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