

## 30-Day STEM Challenge

*One Fun Activity for Each Day of the Month*

### How to Use This Challenge

Complete one STEM activity each day for 30 days! Perfect for summer learning, after-school enrichment, or family fun. Most activities use household materials and take 15-30 minutes.

### Week 1: Engineering

Day 1: Build the tallest tower using spaghetti and marshmallows

Day 2: Create a boat from aluminum foil that floats

Day 3: Design a paper airplane that flies the farthest

Day 4: Build a bridge from popsicle sticks

Day 5: Make a catapult from rubber bands and spoons

Day 6: Create a chain reaction with dominoes

Day 7: Build a structure that can hold a book

### Week 2: Science

Day 8: Make a volcano with baking soda and vinegar

Day 9: Create a rainbow with a glass of water and sunlight

Day 10: Grow crystals from salt or sugar

Day 11: Make slime from glue and borax

Day 12: Test which materials are magnetic

Day 13: Create a tornado in a bottle

Day 14: Make ice cream in a bag

### Week 3: Technology

Day 15: Code a simple animation in Scratch

Day 16: Take apart an old electronic device (with permission!)

Day 17: Create a stop-motion video

## Dallas W. Thompson - STEM Resources

Day 18: Build a simple circuit with a battery and LED

Day 19: Design a website or blog

Day 20: Learn about QR codes and create one

Day 21: Explore Google Earth and find your house

### **Week 4: Math & More**

Day 22: Create patterns with shapes and colors

Day 23: Measure everything in your room

Day 24: Make symmetrical art

Day 25: Create a graph of your family's favorite foods

Day 26: Build with LEGO following specific dimensions

Day 27: Create a tessellation (repeating pattern)

Day 28: Make origami shapes

Day 29: Design your dream house with measurements

Day 30: Celebrate! Share your favorite activity