



## **STEM Activity: Build a Strong Bridge**

**Ages:** 5–7 | **Time:** 30–45 minutes

### **Learning Goal**

Children explore basic engineering concepts by designing and building a bridge that can hold weight using everyday materials.

### **Skills Developed**

- 1 Problem-solving
- 2 Critical thinking
- 3 Creativity
- 4 Fine motor skills
- 5 Confidence building

### **Materials Needed**

- 1 Paper (construction or printer paper)
- 2 Tape
- 3 Plastic cups or blocks
- 4 Small toy car or coins (for weight testing)

### **Activity Instructions**

- 1 Place two cups or blocks about 6 inches apart to act as supports.
- 2 Build a bridge between the supports using only paper and tape.
- 3 Test the bridge by placing a toy car or coins on top.
- 4 If the bridge collapses, redesign and try again.

## Reflection Questions

- 1 What worked well?
- 2 What was challenging?
- 3 What would you change next time?

*Parent Tip: Praise effort, creativity, and persistence. Engineers learn by testing, improving, and trying again.*

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