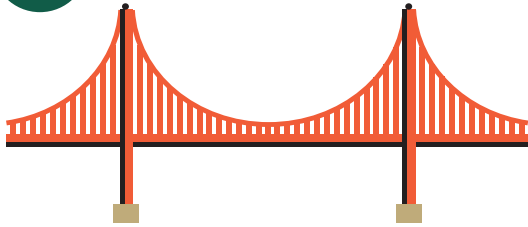


# BRIDGES

Bridges come in lots of shapes and sizes, but all accomplish the same goal: safely getting people, animals, or objects over an obstacle.

## 4 MAIN TYPES OF BRIDGES:



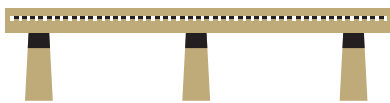
### **SUSPENSION** - Golden Gate Bridge

These bridges are used for long distances because of their light frame. They are built using two towers with cables running from them that transfer the weight from the cables to the towers. This is done with a combination of tension and compression.



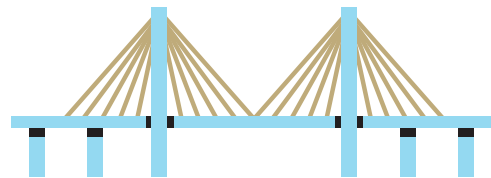
### **ARCH** - New River Gorge Bridge

The arch bridge is made by using stone, steel and concrete, forming an arch shape that holds the bridge up and braces from the wind.



### **BEAM** - Seven Mile Bridge Marathon

Beam bridges are the oldest and simplest bridge type. They are created using a long support beam running from one support at one end to another at the other end.



### **CABLE-STAYED** - Talmadge Memorial Bridge

Beam bridges are the oldest and simplest bridge type. They are created using a long support beam running from one support at one end to another at the other end.

## TEST YOUR BRIDGE MAKING SKILLS...

Design and build your own bridges out of things you have around the house! Test your designs with weights, take notes and improve on your design! How strong can you make yours?

### **SUPPLIES**

**Building Materials:** Straws, Spaghetti Noodles, Toothpicks or Popsicle Sticks

**Weights:** Pennies

**Adhesive:** Hot Glue Gun or Scotch Tape

**Base:** Books

