

Bridge Building

Name: _____

Problem: _____

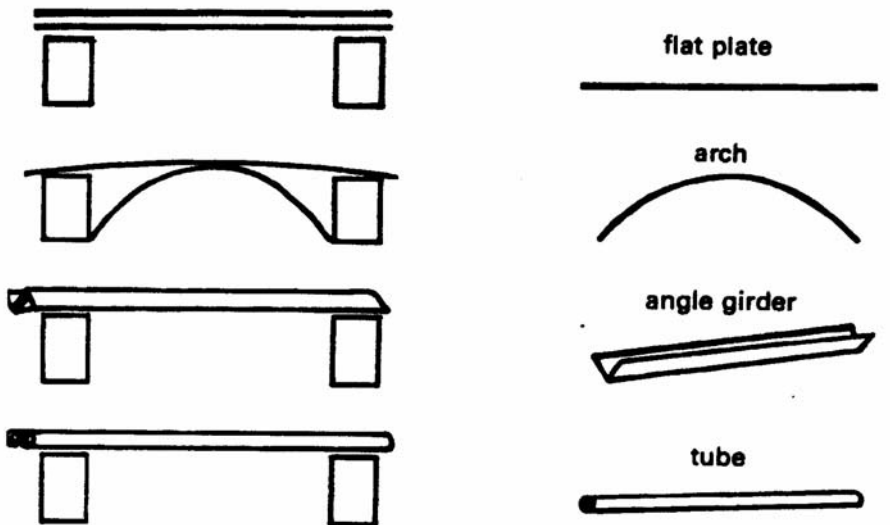
Key Words: beam, girder, plate, tubular

Hypothesis: _____

Materials: bridge challenge sheet 2 blocks - abutments
 scissors various weights
 ruler

Procedures:

1. Cut 10 strips of paper - 18cm long by 4cm wide
2. Study the pictures at right
3. Set the blocks on the challenge sheet in the spaces provided.
4. Test each of the four bridge designs to determine the maximum load each can handle before collapsing.
5. Record the maximum weight in the table below.



Bridge Style	Flat Plate	Arch	Angle Girder	Tube
Weight				

6. Which bridge type held the greatest load? _____
7. What characteristics of the bridge allowed it to hold the greatest load? _____

