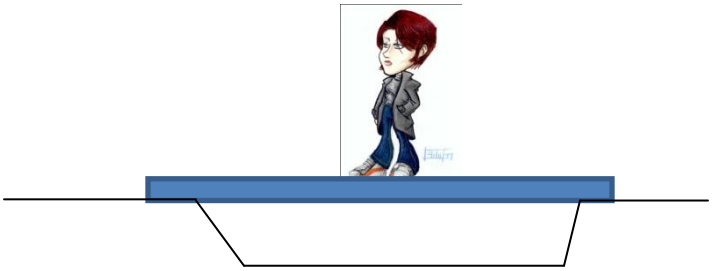
Popsicle Bridges
Pre-/Post- assessment

1. There are several different types of forces that act on bridges. In Column A four of these forces are listed using their technical term. Draw a line to connect each technical term with its more common definition in Column B.

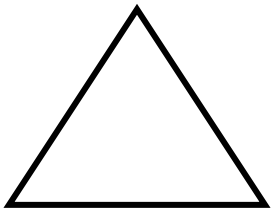
Column A	**Column B**
Shear	Stretching
Compression	Sliding
Torsion	Twisting
Tension	Squeezing

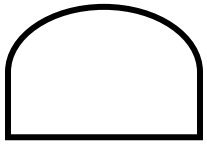
2. On the simple beam bridge shown in the drawing label the forces that are acting on the center and the ends of the beam.



3. If the person standing in the middle of the bridge weighs 60 kgs, how much weight must be supported by each end of the beam

4. Which shape shown below (if constructed using the same materials and dimensions) will provide the strongest form of truss.





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5. Identify the 4 basic bridge designs shown in the pictures

A. _____ B. _____

C. _____ D. _____