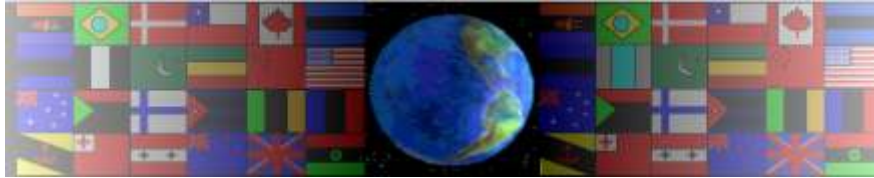


TRIANGULATION

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On behalf of The World Association of Technology Teachers

W.A.T.T.



World Association of Technology Teachers

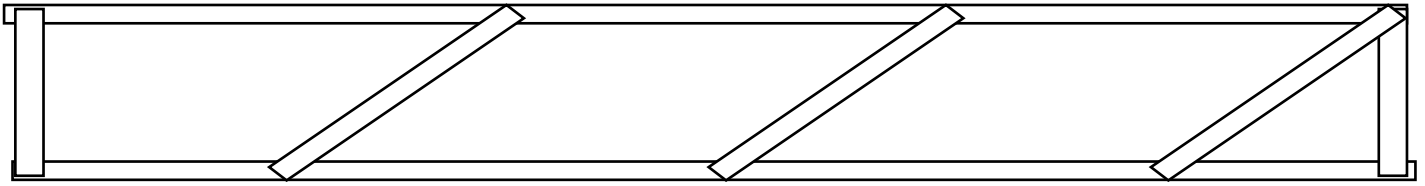
This exercise can be printed and used by teachers and students. It is recommended that you view the website (www.technologystudent.com) before attempting the design sheet .

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TRIANGULATION

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1. The incomplete drawing below, represents a simple wooden triangulated bridge. Complete the drawing so that triangulation is clearly seen.



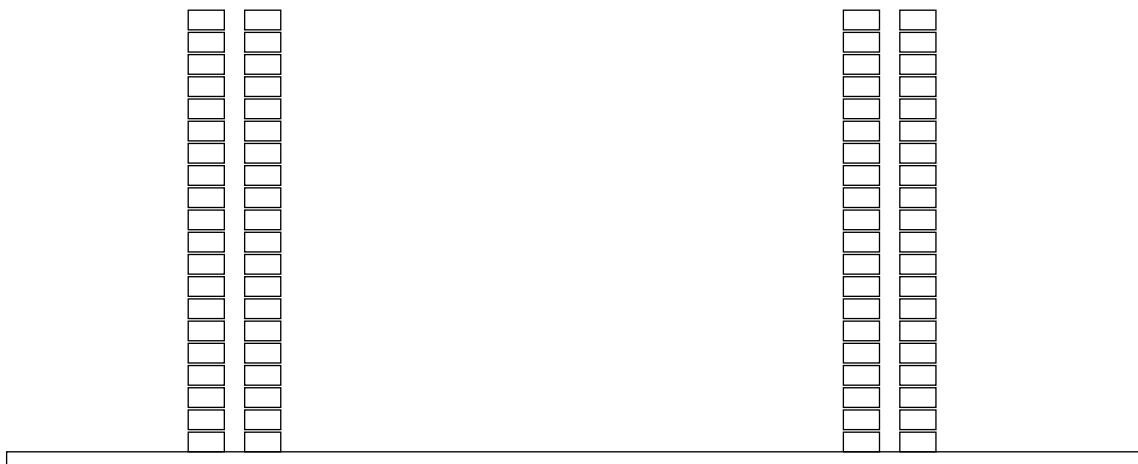
2. Why is triangulation an excellent way of building structures such as bridges and towers?

3. Name two famous structures that rely on triangulation for their strength.

STRUCTURE 1: _____

STRUCTURE 2: _____

4. The diagram below, represents the side view of the outer walls of a single storey house (bungalow). A conventional, triangulated roof is to be added. Draw a set of triangulated roof timbers in place.



5. Collect a number or photographs/diagrams of structures that rely on 'triangulation' for their strength. For example, a famous bridge or building. For each structure explain how triangulation is used.