

# TRIANGULATION

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On behalf of The World Association of Technology Teachers

## W.A.T.T.



World Association of Technology Teachers

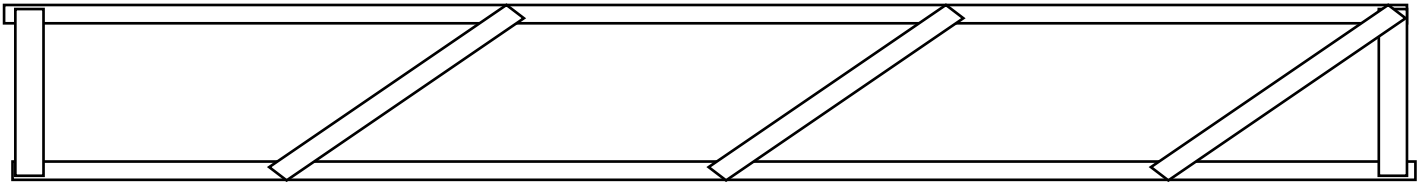
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1. The incomplete drawing below, represents a simple wooden triangulated bridge. Complete the drawing so that triangulation is clearly seen.



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

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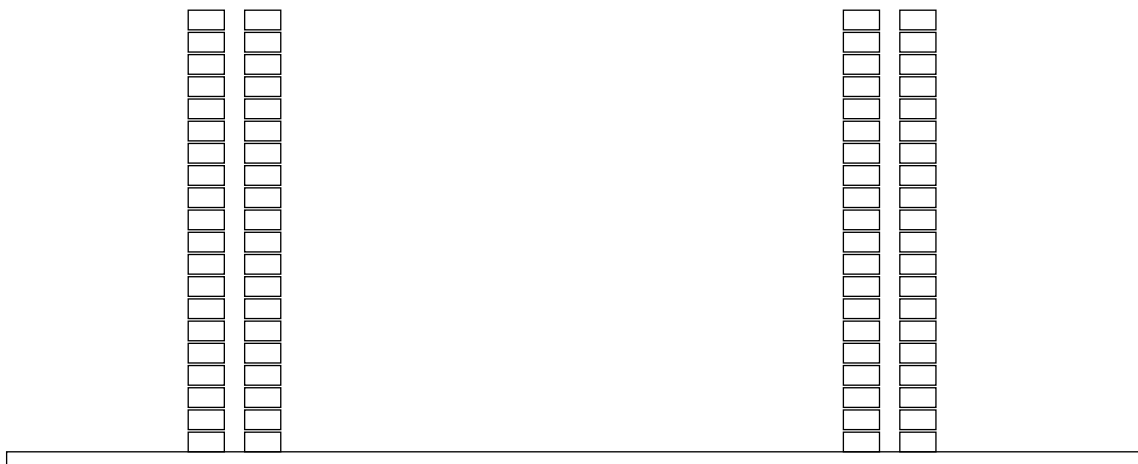
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3. Name two famous structures that rely on triangulation for their strength.

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.