

Triangles hold their shape

engineering

What you need: equal card strips about 15 cm long · split pins · hole punch · structure photograph cards (roof truss, farm gate, pylon, bike frame, shelf bracket, climbing frame)

Words to use

Rigid shape · Brace · Structure

Our question

What happens when we push a loose square and a loose triangle, and what does one diagonal brace change?

I predict...because...

Words to sort

roof truss · farm gate diagonal · pylon · bike frame · shelf bracket · climbing-frame brace

Group each triangle by the structural job it does using the short board labels: Roof or frame, Gate or fence, or Machine.

Group 1	Group 2	Group 3

Which shape held its form?

What did the diagonal brace do to the square?