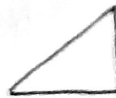
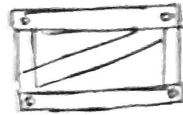


REINFORCING STRUCTURES

RIGIDITY

→ triangles

- will not distort easily
- truss (support roofs and bridges)
- frameworks made of triangular parts are called triangulated frameworks



two-triangle framework



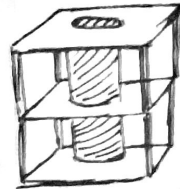
truss

→ backing

- eg: bookshelf back

→ cores

- eg: building pillars

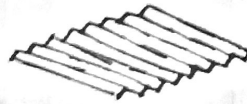


central core

STIFFNESS

→ folding

- fold edges
- concertina shape
- rolling into tube



concertina

→ lamination

- multiple thin sheets together

→ honeycomb

- light but strong
- eg: inside door



STRENGTH

→ gusset plates

- increase area of joint and distribute stress more evenly



→ ribs

- stop walls from caving in
- light and strong

→ braces

