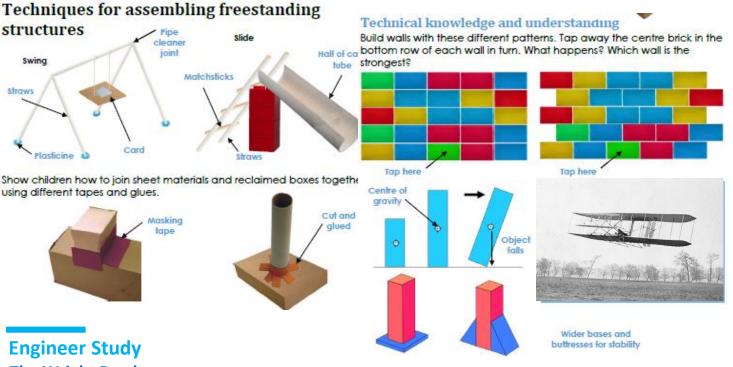


Free Standing Structures



The Wright Brothers

- ✓ The Wright Brothers, Orville and Wilbur, were American engineers, inventors and bicycle makers.
- ✓ They are famous for inventing, constructing and flying the first aeroplane in the world.
- ✓ Orville was born in 1871 in Ohio, and Wilbur in Indiana, in 1867.
- ✓ A toy flying machine gave the brothers an interest in flight and aerodynamics. They designed and built several model gliders, and experimented with a wind tunnel.



Vocabulary

Freestanding structure: a structure that stands on its own foundation or base without attachment to anything else.

Frame structure: a structure made from thin components e.g. tent frame.

Shell structure: a hollow structure with a thin outer covering.

Stability: in relation to a freestanding structure, the extent to which it is likely to fall over if a force is applied.

Buttress: a structure added to a wall, tower or framework to make it more stable and/or reinforce it.

Brick bonding: arranging bricks in a wall to improve the performance of the structure or improve its appearance.

Mock-up: 3-D representation of a product.