



A structure is something made by joining materials together so it can stand up and hold its shape.

Using thicker, more rigid materials can increase a structure's strength and stability.

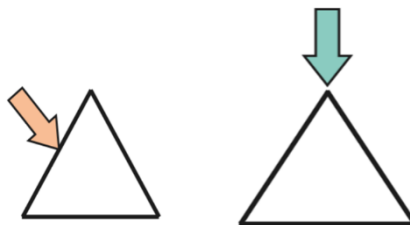
The base shape and size are important. Very, tall thin structures with narrow bases, like dikes, are unstable

Triangles Are Strong

If you put force on the point, it keeps its shape.

Structures that include triangles are **stronger**.

If you put force on the side, it bends.



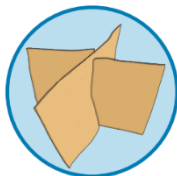
Joining Materials

To make sure the structure is successful, the materials need to be **connected** and **strong**. We can use different joins to do this.

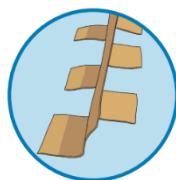
flange



slot



tabs



folds



Structures - Playground

Key Vocabulary	Definition
assemble	fit together the separate parts of a machine or other object
prototype	a first version of a product – a working model
base	the bottom support of a structure
stability	the ability to resist movement or change
test	a process used to check which option works best
materials	a physical substance that objects are made of
structure	a combination of materials to create a 3D shape for a purpose
unstable	something that is likely to give way or collapse
stable	something that is firmly fixed and not likely to collapse or give way

Existing Products

