

## D&T – Playground pioneers



Kapow™

|             |                                             |
|-------------|---------------------------------------------|
| aesthetic   | How something looks.                        |
| alternative | A different option that can be chosen.      |
| constraint  | A limit or condition when making a product. |
| function    | What something is used for.                 |

Structures are formed or made from parts for a purpose.  
Types of structures:



frame



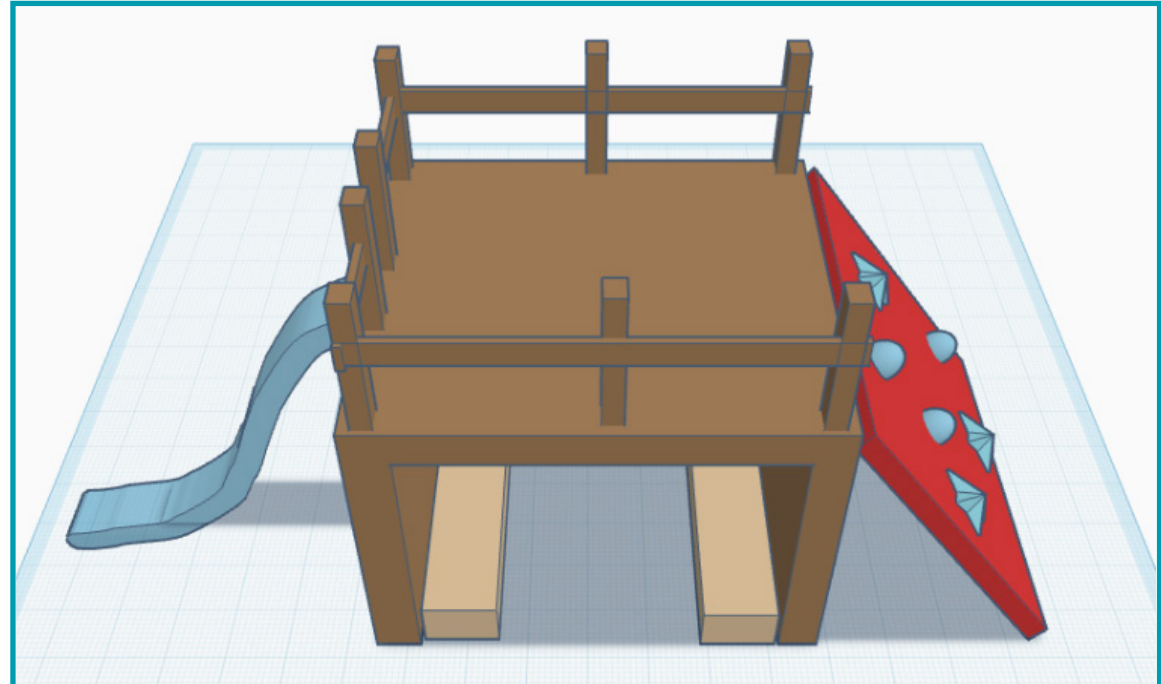
shell



combined



solid



**Computer-Aided Design (CAD)** can help designers develop their ideas and explore what their designs would look like in 3D.

### Equipment for cutting and preparing wood



A **hacksaw** is a type of saw with a narrow blade.

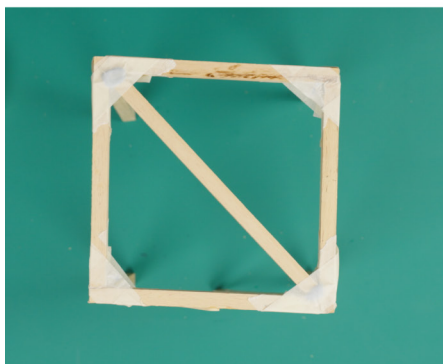
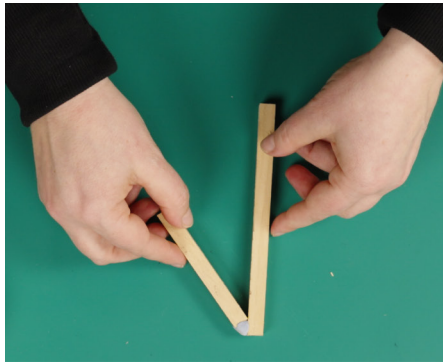


**Sandpaper** has a rough side to smooth edges of wood.



A **bench hook** is used to hold wood still and straight for sawing.

## Methods of joining and reinforcing



## Sustainable materials



Sustainably sourced wood is a good building material because it comes from trees.



Bamboo is sustainable because it grows very quickly.

## Innovative materials

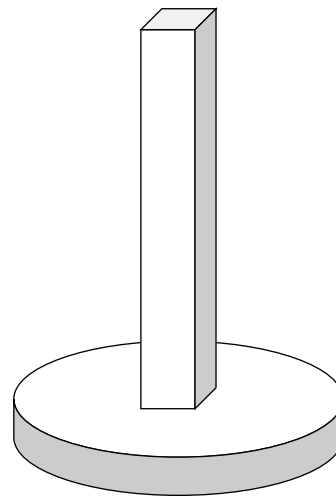


Mycelium bricks are made from the root-like structure of fungi. They are light and fire-resistant.

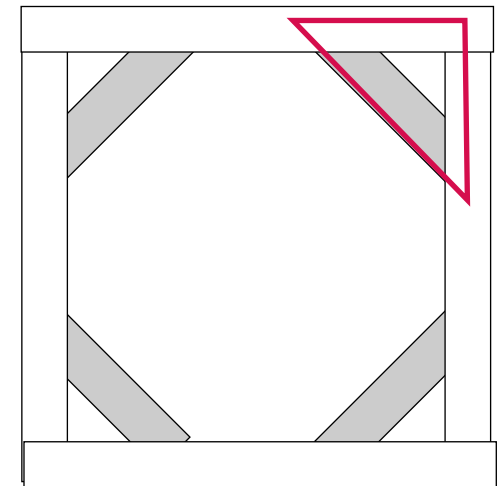
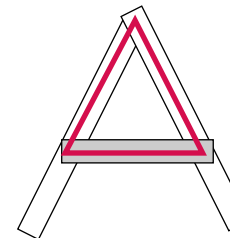
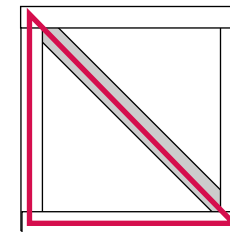


Eco-bricks are made from plastic bottles and wrappers. They can be used to make small structures.

**Reinforcing** structures makes them stronger or more stable.



A wide, heavy base is more stable.



**Triangulation** uses bracing to form triangles, which are the strongest shape.