Year 6-DT Knowledge Organiser.

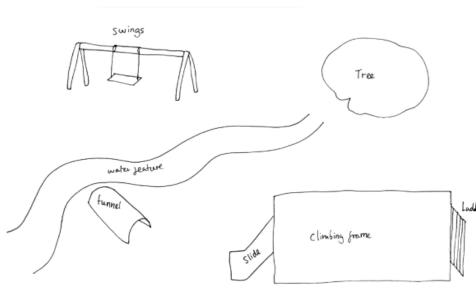
Structure

A structure is a building or object constructed from several

Designing a Playground

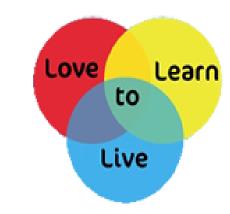


Footprint



Design Criteria - Are things that your structure must have to be successful.

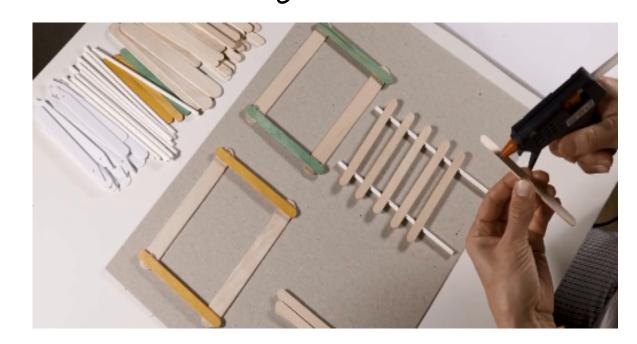
Structures: Playgrounds

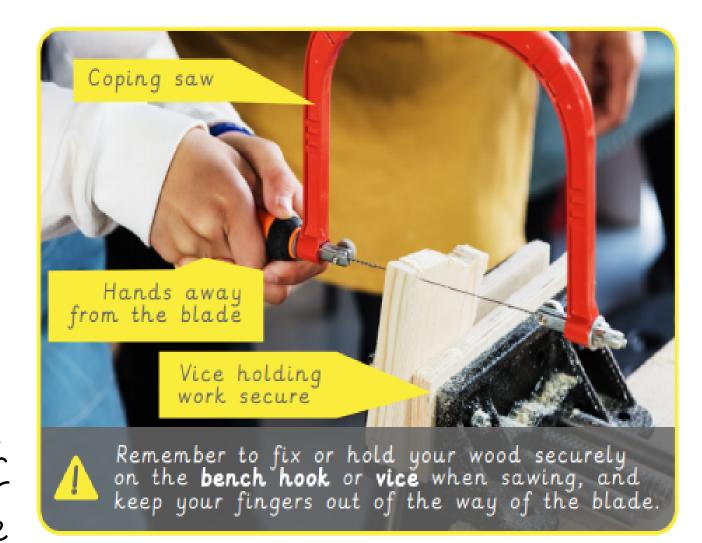


Building Structures

Think about how you will make the different structures on their playground and discuss the techniques used as a class.

It is importrant to measure accurately before cutting. Then, demonstrate how to glue the different pieces of the structure together either using PVA glue or a glue gun.





Think about ways of reinforcing your structures to make them stronger, eg: extra pieces of wood to brace the structure, use of card triangles to strengthen corner etc



How well do your structures meet the design criteria?

Are the structures stable and secure?



Safety Before using sharp tools or equipment make sure that: -Hair is tied back - No jewellery is worn

Vocabulary

Apparatus
Structure
Prototype
Dowel
Coping Saw
Footprint
Reinforce
Modify
Mark Out

Joining materials



PVA explain that this will take a while to dry, so they should make the sides of their structures and leave them to dry before assembling.



Hot glue
This method is a
good way to
join materials
and is much
longer lasting
than PVA glue.



Card corners
These can be used to strengthen the structure. Triangles are often used in construction as they help with stability and strength.



Tape
If using tape,
make sure you
have wrapped
it around
enough times
to be secure.