

Year 4- DT Knowledge Organiser.

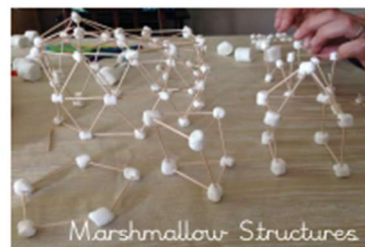
Structures



When creating a structure it is important to consider aesthetics, strength and stability.

Structure
A structure is a building or object constructed from several parts.

Design
The properties of stable structures
- How they could reinforce corners
- How their design matches the theme noted in the design criteria
- Why their structure would appeal to the target audience they identified
- The materials they will need to create their pavilions - Any equipment or tools they will need to create their structures

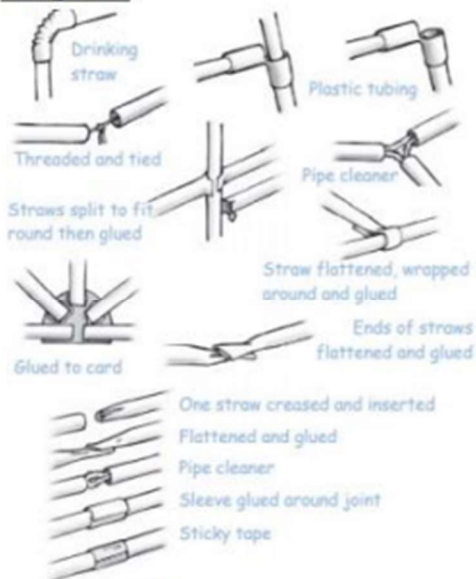


Shape
Some shapes are more stable than others. When exploring structures you should explore which shapes can help to make objects more stable.

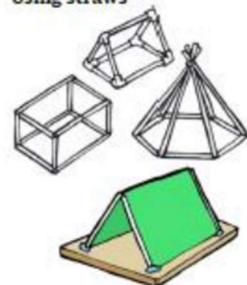
Vocabulary
structure
aesthetics
strength
stability
frame
reinforce
exploded drawing
construction
design
function
purpose
card corners

Joining techniques

Joining straws



Using straws



Joining materials



PVA glue
PVA glue is a versatile, flexible glue that doesn't yellow.

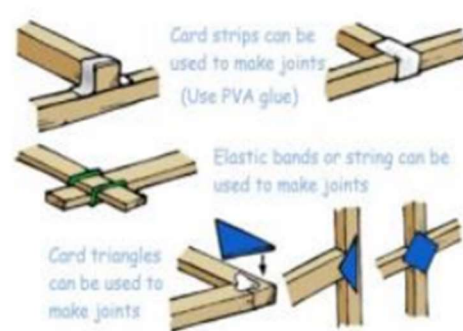


Hot glue
This method is a good way to join materials and is much longer lasting than PVA glue.



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

Joining thin wood



Using square section wood

