

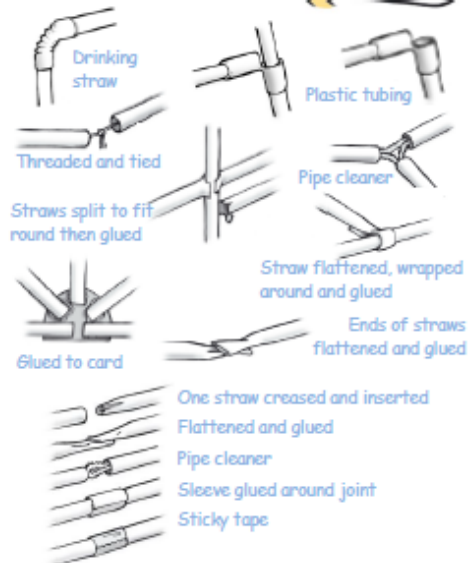
Techniques

Techniques for building frame structures

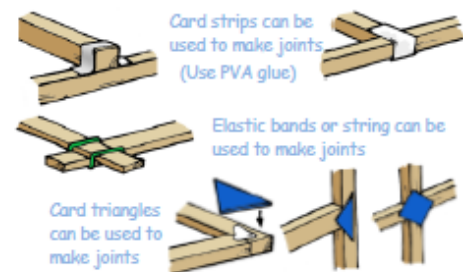
Roll paper to make tubes for construction



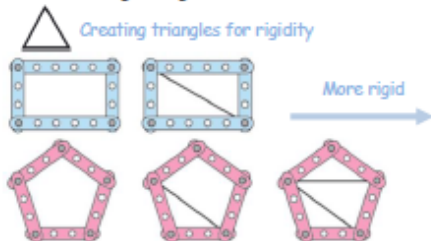
Joining straws



Joining thin sectioned pieces of wood

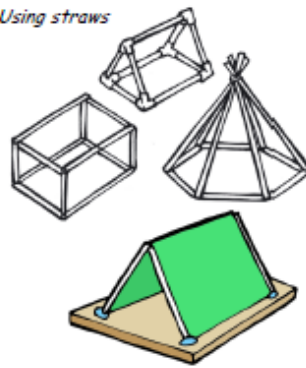


Understanding triangulation

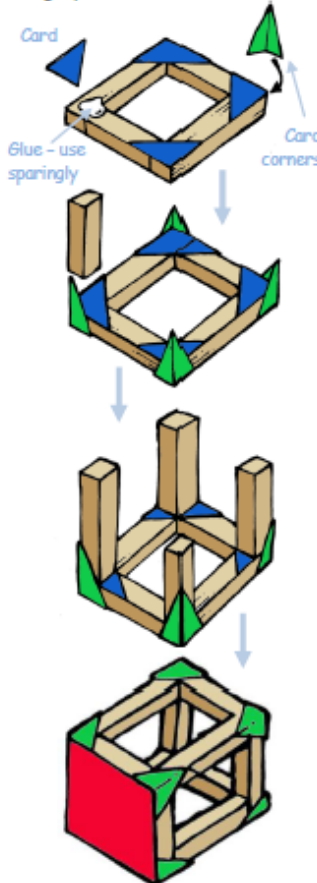


Making small-scale frame structures

Using straws



Using square section wood



Vocabulary

Frame structure	a structure made from thin components e.g. tent frame
Stiffen	to make something more rigid
Strengthen	to make something stronger
Reinforce	to add strength to
Triangulation	the use of triangular shapes to strengthen a structure
Stability	the condition or quality of being stable
Shape	to give a certain form or shape to
Join	to put, bring, or fasten together
Temporary	for a short time; not permanent
Permanent	meant to last for a very long time
Design Brief	the statement a client gives to a designer outlining what they want their product to be like
Design Specification	a list of criteria a product needs to address
Prototype	an original model on which later stages or forms are based or developed
Annotated sketch	a combination of notes and labeled drawings that provide an explanation about a design
Purpose	the reason for making a product
User	the person in mind when designing a product
Innovation	a new idea, product, or way to do something
Research	careful study of something in order to find out information about it
Functional	able to serve the intended purpose

Health and Safety

Pay close attention when using sharp tools

Stop what you're doing as soon as the teacher or your partner says "stop".