		Year	6
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DT

Structures:

Knowledge Organiser

Technique	S	
[Fram ture
Techniques for building frame structures Roll paper to make	Making small-scale frame structures	Stiffe
tubes for construction Joining straws	Using straws	Stren
		Reinf
Drinking straw Plastic tubing		Trian
Threaded and tied Straws split to fit		Stabi
round then glued Straw flattened, wrapped around and glued	Using square section wood	Shap
Glued to card	Card Card	Join
One straw creased and inserted Flattened and glued Pipe cleaner	Glue - use Card	Temp
Sleeve glued around joint Sticky tape	sparingly	Perm
Joining thin sectioned pieces of wood Card strips can be		Desig
Used to make joints (Use PVA glue)		Desig Speci
Card triangles can be used to make joints		Proto
Understanding triangulation Creating triangles for rigidity		Anno sketo
More rigid		Purp
		User
		Innov
	·	Rese
		Func

	5
	Vocabulary
Frame struc- ture	a structure made from thin com- ponents 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	he 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 de- veloped
Annotated sketch	a combination of notes and la- beled drawings that provide an explanation about a design
Purpose	the reason for making a product
User	the person in mind when design- ing 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 pur- pose

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".