

Year 5 and 6 Design and Technology Knowledge Organiser – Frame Structures



Technical knowledge



Practical knowledge



Design inspiration

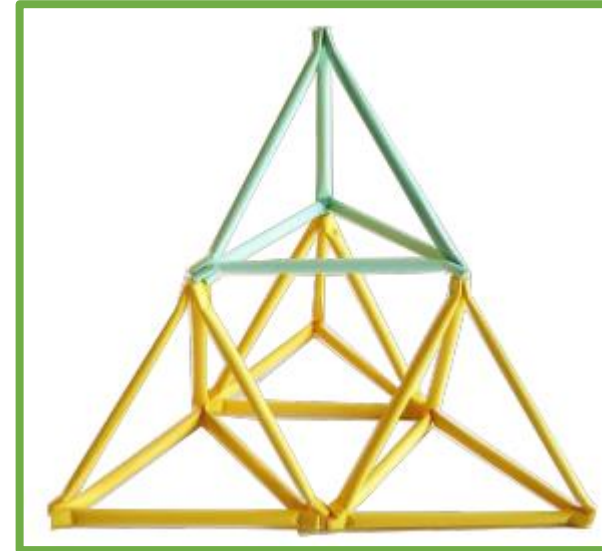


Design process

Subject Specific Vocabulary	Meaning
assemble	to collect and put together
technique	a practical way of doing something
construct	to make or build
extend	to make longer
automatically	an automatic action is one that you do without thinking about it
fluency	if you are fluent in something, you do it effortlessly
inspiration	where you got your ideas from
purpose	the reason for which something is made
user	the person for whom the product is designed

Summary

One of the main benefits of frame structures is that the materials they are made from are usually lightweight. Their strength comes from the way in which they are joined and assembled.



Techniques

- Measuring
- Cutting
- Estimating
- Assembling
- Joining

Being Designers

Designers need to practise making things until their hands and fingers do things automatically, without much thinking. This is called fluency. By practising making pulleys in lots of different ways, your hands and fingers will become fluent in making and assembling.

Designers take inspiration from existing products. They think about a product's purpose, the users and how it is designed.