

What should I already know?

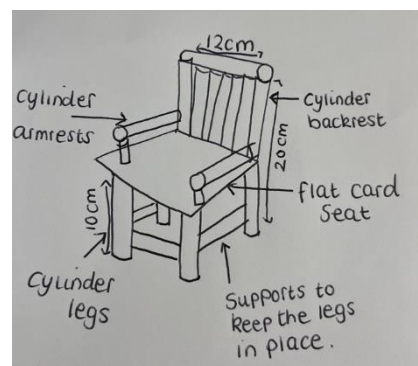
- To be able to plan and think about their own design
- To be able to use a range of different tools
- To be able to name and understand what materials are suitable for the product.

Key Knowledge and skills gained

- To know that shapes and structures with wide, flat bases or legs are the most stable.
- To understand that the shape of a structure affects its strength.
- To know that materials can be manipulated to improve strength and stiffness.
- To know that a structure is something which has been formed or made from parts.
- To know that a 'stable' structure is one which is firmly fixed and unlikely to change or move.
- To know that a 'strong' structure is one which does not break easily.

Key Vocabulary and definitions

Function	How something works.
Man-made	Made by people.
Natural	Found in nature e.g. spider's web, sheep's wool
Stable	Object does not easily topple over.
Stiff	A material or object that does not bend easily (e.g. wood)
Strong	Something that is not easily broken (e.g. wood, brick, building)
Structure	Something that has been made and put together and can usually stand on its own (e.g. building, a bridge, a chair)
Test	To find out whether something works as it should.
Weak	Something that is easily broken (e.g. paper, egg shells).



Technical design



Final piece