

What I should already know

- Structures are things that are built and have a purpose.
- Structures with a wider base are more stable than ones with a narrow base.
- Extra weight added to the base of a structure makes it more stable.
- Shapes and structures with wide, flat bases or legs are the most stable.

Technical skills

Design:

- Create a simple design brief that outlines the intended use, target user and key features of a product to create a simple design criteria.
- Creating ideas with a design criteria in mind.
- Referring to specific parts of existing products when generating ideas.

Make:

- Looking for ways to make cutting easier, for example turning the material they are cutting.
- Explain my choices based on the properties of materials.
- Choosing known geometric shapes when making.

Evaluate:

- Discussing a range of existing products and saying what they like about them.
- Evaluating their creations against a simple design criteria.

Technical knowledge:

- Building a strong and stiff structure by folding paper.
- Making stable structures from card.
- Using stable objects like cylinders to create structures.



Sticky Knowledge

Design:

- A design brief helps to decide what to make.
- The design criteria are the steps for making the product successful.

Make:

- Some properties of materials are hard, soft, flexible, waterproof and strong.

Evaluate:

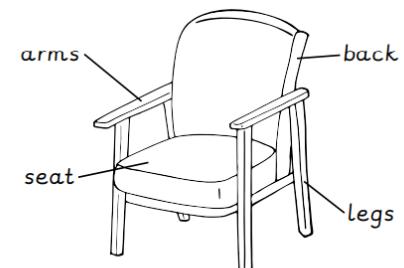
- Existing products can be evaluated against a design criteria.
- Improving something means making it better.

Technical Knowledge:

- A structure is something that has been made and put together.
- The shape of a structure affects its strength.
- A strong structure is one which does not break easily.

Vocabulary

Design brief	A short explanation of what you are going to make and who it is for.
Design criteria	A list of things your design must do or be like.
Flexible	Something that can bend easily without breaking.
Improve	To make something better.
Stiff	Something that does not bend easily.
Strong	Something that does not break easily and can hold weight.
Thicker	When something is wider or has more depth than another thing.
Thinner	When something is not as wide or deep as another thing.
Weak	Something that breaks or bends easily or is not very strong.
Yinka Ilori	 Yinka Ilori is an artist and designer known for his bold, colourful creations that make spaces feel cheerful and lively.



A chair is a freestanding structure made from different parts.

