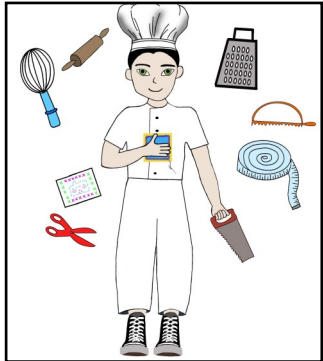




Knowledge Organiser

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Concept



Prior experiences or knowledge learnt

- Experience of using different joining, cutting and finishing techniques with paper and card.
- A basic understanding of 2-D and 3- D shapes in mathematics and the physical properties and everyday uses of materials in science.

Skills I am practising

- To analyse structural designs in terms of functionality, aesthetics, and materials.
- To identify the structure of different air raid shelters and analyse the support techniques to make the structure strong.
- To explore suitable materials to create a strong structure (air raid shelters)
- To generate ideas and design a structure (air raid shelters) demonstrating my design from different perspectives.
- To use a range of appropriate tools competently and I can join and combine a range of materials competently.
- To evaluate a product on appearance and function against an original design.

Project

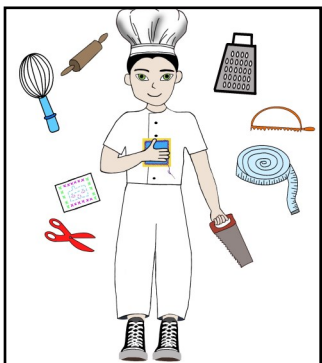


Technical knowledge

- Anderson shelters is a building to protect people from bombs dropped by planes.
- Anderson Shelters were made from six curved sheets bolted together at the top, with steel plates at either end.
- They were incredibly strong. They were especially strong against a compressive force – for example the explosion of a nearly bomb – because of their corrugation.

Sequence of learning

1)	To analyse structural designs in terms of functionality, aesthetics, and materials.
2)	To identify the structure of different air raid shelters and analyse the support techniques to make the structure strong.
3)	To explore suitable materials to create a strong structure (air raid shelters)
4)	To generate ideas and design a structure (air raid shelters) demonstrating my design from different perspectives.
5)	To use a range of appropriate tools competently and I can join and combine a range of materials competently.
6)	To evaluate a product on appearance and function against an original design.



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Key vocabulary

Tier 2	Tier 3
Adapt —make something suitable for a specific purpose	Evaluation —the making of a judgement about the value of something
Measure — determine the size, amount or degree of something by using a device in standard units	Cladding —a covering or coating on a structure or building
Modify — make minor or partial changes to something	Prototype —a first or preliminary version
Structure — a building or other object constructed from several parts	Reinforce — strengthen or support, especially with additional material