

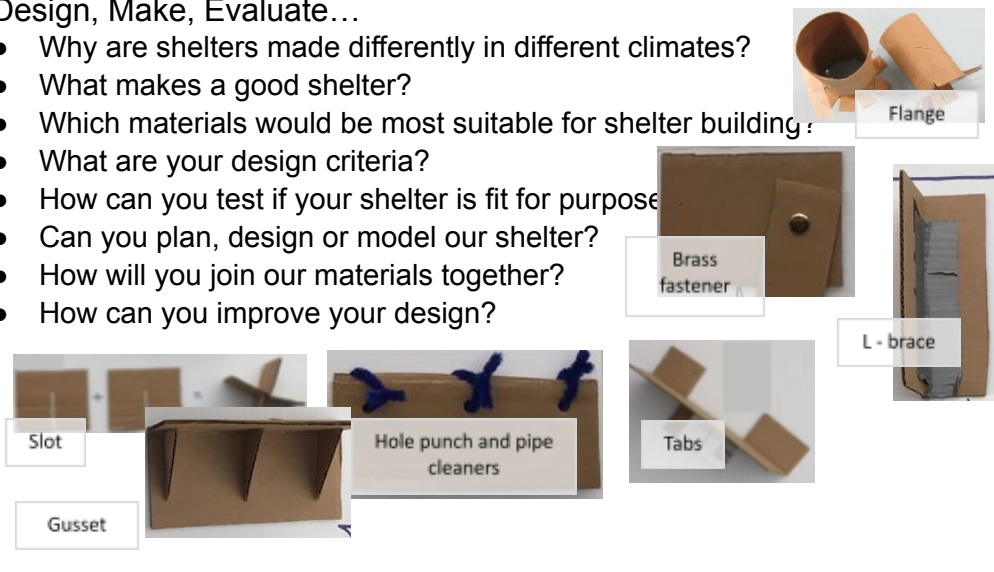
Our Lady and St Edward's Knowledge Organiser	Year 3 - Design and technology	Autumn	Construction: Shelters
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Outcome: Investigate how shelters are built differently in countries around the world due to climate. Design and build a shelter for a specific climate.

Key Knowledge	Key Vocabulary
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Design, Make, Evaluate...

- Why are shelters made differently in different climates?
- What makes a good shelter?
- Which materials would be most suitable for shelter building?
- What are your design criteria?
- How can you test if your shelter is fit for purpose?
- Can you plan, design or model our shelter?
- How will you join our materials together?
- How can you improve your design?

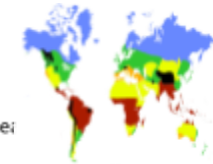



Construction: The building of houses, factories, roads and bridges.
Shelter: A place giving protection from bad weather or danger.
Net: 3D shape opened out flat.
Shell Structure: Structure with a solid outer surface (curved or flat) and a hollow inner area.
Durable: Able to withstand wear, pressure, or damage; hard-wearing.
Prototype: A first version or model of a product from which other forms are developed.
Design Criteria: Precise goals that a project must achieve in order to be successful.
Design: A plan or drawing produced to show the look and function of a building or other object before it is made.
Join: A place or line where two or more things are connected or fastened together.
Evaluate: Decide if your design or structure meets its purpose.
Climate: Typical weather conditions in an area in general or over a long period.
Function: Use or purpose of the design or structure.
Purpose: The reason for which something is created.

Key Information about climates	
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Climate is a description of the average weather conditions in a certain place for the past 30 or so years.
 Different areas of the world have different climates. Climate is influenced by lots of different things, including:

- how near or far a place is from the Equator
- how near or far a place is from the sea
- how high or low the ground is
- the position on a continent

Health and Safety
 All children should to be supervised when using equipment.

What I should already know:	By the end of this unit, I will know:
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- To build structures, exploring how they can be made stronger, stiffer and more stable.
- Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- Explore and evaluate a range of existing products
- Evaluate their ideas and products against design criteria

- Generate, develop, model and communicate their ideas through discussion, annotated sketches and diagrams
- Apply their understanding of how to strengthen, stiffen and reinforce more complex structures

