

Mexborough St Johns DT Knowledge Organiser: Structures- Mini Greenhouses Y3

Types of Greenhouses:



Greenhouse

Lean to



Propagator



Polytunnel

There are lots of different types of greenhouses. Each can be a different shape and use different materials for their frame such as wood or metal, as well as different transparent materials for the windows such as plastic or glass.

Each one is designed with a different purpose and audience in mind. Someone may only have a small amount of space in their garden, others may need large, cost-effective ones for commercial use.



Mentionable Structure and People:

The Eden Project (Cornwall, UK) Nicola Grimshaw –

This is a massive greenhouse that hold millions of plants and simulates both a Mediterranean and rainforest environment over 30 acres of land!

Vocab:

Greenhouse: A building in which plants (including flowers, fruit and vegetables) that need protection from cold weather are grown.

Polytunnel: A long, curved polythene-covered frame for growing seedlings and plants.

Propagator: A covered, clear container for growing seedlings.

Transparent: A material that can be seen through clearly.

Ventilation: Allowing fresh air to enter and flow around a room.

Framework: An essential supporting structure of an object.

Structure: A building/object constructed from several parts.

Key Skills and Knowledge:

- All things are designs with specific purpose and audience.
- Designs and prototypes need to be evaluated and adapted based on need.
- A solid, secure frame is needed.
- Appropriate transparent material must be used.
- Ventilation is required.