



Endpoints for Design Technology

Year 3 – Greenhouse



In this topic, we will be exploring the purpose, structure and design features of greenhouses. We will be learning about good design and also how to use tools safely.

What I know and can explain

Particular products are designed for specific tasks

Work from different designers can be compared by assessing specific criteria, such as their visual impact, fitness for purpose and target market

Diagonal struts create triangular shapes within a frame structure

Adding diagonal struts to a frame structure adds strength and stability

Materials for a specific task must be selected on the basis of their properties

Design criteria are the exact goals a project must achieve to be successful

Greenhouses

A greenhouse is a structure where plants can grow in a warm, protected environment.

Features and benefits of greenhouses

Greenhouses protect plants from bad weather but they also allow sunlight to reach plant leaves. Sunlight also warms the air inside the greenhouse. This trapped air provides warmth for the plants, which helps them to grow. Greenhouses usually have windows or vents that open to stop the air inside from getting too hot.



Useful Vocabulary

Diagonal strut – A thin, rigid component of a frame that adds strength and stability by creating a triangular shape

Hot glue gun - A tool that heats and melts glue to be applied to a surface

Rigid - Not able to be bent

Transparent - A material that allows light to pass through and can be seen through

Translucent - A material that allows some light to pass through, but objects appear blurry