




Year 2 – Bug Hotel

Concepts	 Finding out about what already exists and how things work <small>Innovate</small>	 Using a range of skills and tools to design and make <small>Technique</small>	 Evaluate success of own and others' design <small>Evaluate</small>
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In this topic, the children will design and make a bug hotel, using appropriate tools and materials. This builds upon the construction skills the children have begun to learn in the EYFS and Year 1 when they made a raft. This design project gives the children the opportunity to explore products that already exist and consider how they can use them to inspire their own bug hotel. In KS2, the children's construction skills will continue to be developed as they create a range of items with a specific purpose e.g. a floating garden, a catapult and a shelter.

National Curriculum

Design Technology

- I can design purposeful, functional, appealing products, based on design criteria
- I can generate, develop, model and communicate ideas through talking, drawing, templates, mock-ups and, where appropriate, information and communication technology
- I can choose appropriate tools and equipment, techniques and materials from a wide range
- I can safely measure, mark out, cut and shape materials and components using a wide range of tools
- I can evaluate and assess existing products and those that have been made using a design criterion
- I can investigate different techniques for stiffening a variety of materials and explore different methods of enabling structures to remain stable
- I can explore and use mechanisms e.g. levers, sliders, wheels and axles

Learning Overview

- Look at a range of insect/bug/bird feeders and houses
- Look at the bug hotel in the playground
- Discuss what they are made from and the reasons for those materials
- Discuss how they are joined together
- Explore what is put inside a bug hotel and the reasons for this (link to science knowledge of habitats).
- Make observational drawings of bug hotels and label the materials used and any moving parts
- Explore how to make materials more stable
- Design own 'bug hotel' against a criterion: what animal it is for, where it will be placed, what it will need to be made from etc
- Children make a small bug hotel from suitable materials (plastic or wood)
- Children use suitable tools, including junior hacksaw and clamps to cut small pieces of wood
- Consider suitable ways of joining the pieces of wood together (glue or string)
- Use a range of tools, materials and joining techniques to make a bug hotel
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