

Parsonage Farm Nursery and Infant School

Year 1

Design and Technology - Structures

Summer 2



Prior Knowledge

- ❖ Experience of using construction kits to build walls, towers and frameworks.
- ❖ Experience of using basic tools e.g. scissors, hole punches with construction materials e.g. card, plastic.
- ❖ Experience of using different methods of joining card and

Knowledge

- ❖ Structures are things that are built for a purpose.
- ❖ Understand that freestanding structures can be made stronger, stiffer and more stable.
- ❖ A freestanding structure is a structure that stands on its own foundation or base without attachment to anything else.
- ❖ Freestanding structures need to support their own weight.
- ❖ Stability is the extent to which a structure is likely to fall if a force is applied.
- ❖ A structure that is strong and rigid is able to support more weight.

Skills

- ❖ Measure and cut with accuracy.
- ❖ Use hand tools safely and appropriately.
- ❖ Assemble, join and combine materials.
- ❖ Use a range of tools and equipment to perform practical tasks accurately.
- ❖ Select and use tools suitable for the task, explaining their choices.
- ❖ Use appropriate finishing techniques which are suitable for the product they are creating.
- ❖ Evaluate their finished product against the design criteria.

Key Vocabulary

- ❖ cut
- ❖ fold
- ❖ join
- ❖ structure
- ❖ base
- ❖ top
- ❖ design
- ❖ make
- ❖ evaluate
- ❖ design criteria
- ❖ support
- ❖ rigid
- ❖ stiff
- ❖ freestanding

Safeguarding

- ❖ Follow teachers cutting instructions carefully.
- ❖ Tie back long hair.
- ❖ Walk safely and calmly around classroom.
- ❖ Hold scissors round the closed blades, facing down.
- ❖ Keep work area and floor space clear.