



# Design & Technology

PROGRESSION OF SKILLS

TILSTOCK C OF E PRIMARY SCHOOL



## Year 1

Developing, planning and communicating ideas.

Draw on their own experience to help generate ideas

- Suggest ideas and explain what they are going to do
- Identify a target group for what they intend to design and make
- Model their ideas in card and paper
- Develop their design ideas applying findings from their earlier research

Working with tools, equipment, materials and components to make quality products (inc-food)

Make their design using appropriate techniques

- With help measure, mark out, cut and shape a range of materials
- Use tools eg scissors and a hole punch safely
- Assemble, join and combine materials and components together using a variety of temporary methods e.g. glues or masking tape
- Select and use appropriate fruit and vegetables, processes and tools
- Use basic food handling, hygienic practices and personal hygiene
- Use simple finishing techniques to improve the appearance of their product

Evaluating processes and products

Evaluate their product by discussing how well it works in relation to the purpose

- Evaluate their products as they are developed, identifying strengths and possible changes they might make
- Evaluate their product by asking questions about what they have made and how they have gone about it



## Year 2

Developing, planning and communicating ideas.

- Generate ideas by drawing on their own and other people's experiences
- Develop their design ideas through discussion, observation, drawing and modelling
- Identify a purpose for what they intend to design and make
- Identify simple design criteria
- Make simple drawings and label parts

Working with tools, equipment, materials and components to make quality products (inc-food)

- Begin to select tools and materials; use vocab' to name and describe them
- Measure, cut and score with some accuracy
- Use hand tools safely and appropriately
- Assemble, join and combine materials in order to make a product
- Cut, shape and join fabric to make a simple garment. Use basic sewing techniques
- Follow safe procedures for food safety and hygiene
- Choose and use appropriate finishing techniques

Evaluating processes and products

- Evaluate against their design criteria
- Evaluate their products as they are developed, identifying strengths and possible changes they might make
- Talk about their ideas, saying what they like and dislike about them



## Year 3

Developing, planning and communicating ideas.

- Generate ideas for an item, considering its purpose and the user/s
- Identify a purpose and establish criteria for a successful product.
- Plan the order of their work before starting
- Explore, develop and communicate design proposals by modelling ideas
- Make drawings with labels when designing

Working with tools, equipment, materials and components to make quality products (inc-food)

- Select tools and techniques for making their product
- Measure, mark out, cut, score and assemble components with more accuracy
- Work safely and accurately with a range of simple tools
- Think about their ideas as they make progress and be willing change things if this helps them improve their work
- Measure, tape or pin, cut and join fabric with some accuracy
- Demonstrate hygienic food preparation and storage
- Use finishing techniques strengthen and improve the appearance of their product using a range of equipment including ICT

Evaluating processes and products

- Evaluate their product against original design criteria e.g. how well it meets its intended purpose
- Disassemble and evaluate familiar products



## Year 4

Developing, planning and communicating ideas.

- Generate ideas, considering the purposes for which they are designing
- Make labelled drawings from different views showing specific features
- Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making, if the first attempts fail
- Evaluate products and identify criteria that can be used for their own designs

Working with tools, equipment, materials and components to make quality products (inc-food)

- Select appropriate tools and techniques for making their product
- Measure, mark out, cut and shape a range of materials, using appropriate tools, equipment and techniques
- Join and combine materials and components accurately in temporary and permanent ways
- Sew using a range of different stitches, weave and knit
- Measure, tape or pin, cut and join fabric with some accuracy
- Use simple graphical communication techniques

Evaluating processes and products

- Evaluate their work both during and at the end of the assignment
- Evaluate their products carrying out appropriate tests



## Year 5

Developing, planning and communicating ideas.

- Generate ideas through brainstorming and identify a purpose for their product
- Draw up a specification for their design
- Develop a clear idea of what has to be done, planning how to use materials, equipment and processes, and suggesting alternative methods of making if the first attempts fail
- Use results of investigations, information sources, including ICT when developing design ideas

Working with tools, equipment, materials and components to make quality products (inc-food)

- Select appropriate materials, tools and techniques
- Measure and mark out accurately
- Use skills in using different tools and equipment safely and accurately
- Weigh and measure accurately (time, dry ingredients, liquids)
- Apply the rules for basic food hygiene and other safe practices e.g. hazards relating to the use of ovens
- Cut and join with accuracy to ensure a good-quality finish to the product

Evaluating processes and products

- Evaluate a product against the original design specification
- Evaluate it personally and seek evaluation from others



## Year 5

Developing, planning and communicating ideas.

- Communicate their ideas through detailed labelled drawings
- Develop a design specification
- Explore, develop and communicate aspects of their design proposals by modelling their ideas in a variety of ways
- Plan the order of their work, choosing appropriate materials, tools and techniques

Working with tools, equipment, materials and components to make quality products (inc-food)

- Select appropriate tools, materials, components and techniques
- Assemble components make working models
- Use tools safely and accurately
- Construct products using permanent joining techniques
- Make modifications as they go along
- Pin, sew and stitch materials together create a product
- Achieve a quality product

Evaluating processes and products

- Evaluate their products, identifying strengths and areas for development, and carrying out appropriate tests
- Record their evaluations using drawings with labels
- Evaluate against their original criteria and suggest ways that their product could be improved