

# Non Negotiables for KS1-4 in DT

**By the end of Key Stage 1 children will have learned:**

I can use my own ideas to make something.
I can explain to someone else how I want to make my product.
I can use different tools and equipment with safety & accuracy (scissors etc)
I can describe how something works.
I can build a product that moves.
I can build a structure that is strong.
I can explain which foods are healthy.
I can explain how to be safe and hygienic in the kitchen.
I can use fabric in my designs.

I can think of an idea and plan what to do next.
I can communicate my ideas through my drawings.
I can use different tools and equipment with safety & accuracy (hacksaw etc)
I can mark out something using a template.
I can build a product that has hinges.
I can explain how I have made my product strong and the methods that I have used.
I can name at least 3 food groups needed for a healthy diet.
I can explain whether food comes from an animal, plant or somewhere else.
I can use running stitch to hold two pieces of fabric together.

I can use a computing program to plan a product.
I can explain how I would improve my product next time.
I can make pop ups in a product.
I can use a glue gun with supervision.
I can measure, mark and cut dowel or other wood accurately to make a model.
I can present a product in an interesting way.
I can measure and weigh ingredients carefully.
I can combine a range of ingredients to make a snack.
I can add decoration to fabric to improve its appearance.

# Non Negotiables for KS1-4 in DT

**By the end of key stage 2, children will have learned:**

I can investigate similar products to the one I intend to design for ideas.
I can put together a step by step plan
I can make levers and linkages.
I can incorporate a circuit with a bulb or buzzer.
I can use a computer program to control a product.
I can create a shell or frame and make sure it is stable using ideas like struts.
I can use equipment to chop, mix and spread food.
I understand which food is caught, reared and grown in the UK and the wider world.
I can sew using a running stitch, over sewing and back stitch.

I can sketch alternatives ideas.
I can plan a sequence of work using a storyboard.
I can combine materials that have temporary, fixed or moving joinings.
I can use a range of tools such as bradawls with care and accuracy.
I can incorporate a motor and switch into a model to make it more functional.
I can describe the methods of construction used.
I can prepare similar dishes changing to ingredients slightly to see the difference in taste.
I can follow a recipe using scales to weigh the ingredients out.
I can pin and tack fabric using arrange of joining techniques.

I can make a prototype.
I can evaluate how sustainable the products are.
I can use a craft knife and cutting mat safely and accurately.
I can use a glue gun with supervision.
I can use a clamp to make and up/down mechanism.
I can use a computer program in my designs/ control.
I understand how seasons affect what food is available.
I can use new methods such as beating and rubbing in to produce something to eat.
I can make and evaluate a quality product.

**By the end of Key stage 3, children will have learned:**

**Year 7**

I can effectively use technical drawing equipment within my work
I can understand accuracy and precision and be able to apply it to my work
I will understand the different levels of colouring and why we use coloured pencils
I will have a basic knowledge of typography and how it is used in society
I can use a range of materials including wood, metal and plastic
I can Safety and use of woodwork tools and power tools
I can create wooden joints
I will know about design and designers
I will be able to explain the relevance of cleanliness in relation to hygiene
I will be able to cook a range of dishes following a basic recipe
I will understand the significance of safety within the working kitchen environment
I will be able to identify and appropriately use a range of kitchen equipment

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I will be able to apply my knowledge of running stitch to create a product

## Year 8

I will know what isometric drawing is and be able to use it to communicate my ideas
I will know what orthographic drawing is and be able to use it to communicate my ideas
I will be able to complete a small project including research, application and evaluation
I will know the types of motion
I can make different leavers and linkages
I will know and be able to make different mechanisms focusing on CAMS
I can create construction techniques
I will know basic electronics
I can make basic motors
I can complete basic soldering
I can evaluate the process of preparing, cooking and presentation of a food product/dish
I will be able to cook and adapt a range of dishes from a basic recipe
I will be able to create a recipe and understand how it fits into the design cycle process
I will be able to understand how patterns are used within textiles
I can identify different types of materials and their properties
I can identify different types of fasteners and their uses

## Year 9

I will be able to identify the difference between brand, branding and brand concept
I can complete a project using the design cycle
I will be able to identify the laws that correlate to the sale of products
I will know about the recycling and sustainability linked to different materials
I can complete a life cycle analysis of a product
I can work with different types of metals
I can complete a basic GCSE project.
I will be able to create a bespoke recipe for a specific food type or dietary group
I will be able to explain food provenance, seasonality, and sustainability
I will understand the importance of a healthy balanced diet and the principles of nutrition
I will understand how to do different dye's and their techniques
I can create my own simple pattern and craft a simple product

## In key stage 4

## Year 10

I will be able to create a complex piece of woodworking using my knowledge of joints, finishing and communication of ideas
I will be able to complete a complex textile product using the knowledge of materials, zips fastening and dye's
I will be able to complete a project about interior design including, graphic design, dioramas and perspective

## Non Negotiables for KS1-4 in DT

I will be able to craft a product out of polymers using different techniques and tools

I will be able to research, design and make a healthy balanced meal

I will be able to break down a food dish and identify the nutritional content

I will be able to explain specific preparation and cooking methods and processes

I will be able to fully evaluate the design cycle process

### Year 11

I will be able to complete a GCSE exam project using the design cycle and all of their previous knowledge which is to be set by the exam board

I can use my knowledge of approaches to design to complete my GCSE exam

I can use my knowledge of designing products to complete my GCSE exam

I can use my knowledge of energy and mechanisms to complete my GCSE exam

I can use my knowledge of materials and their properties to complete my GCSE exam

I can use my knowledge of tools, equipment and processes to complete my GCSE exam

I can use my knowledge of new and emerging technologies to complete my GCSE exam

I can use my knowledge of Food commodities to complete my GCSE exam

I can use my knowledge of Principles of nutrition to complete my GCSE exam

I can use my knowledge of Diet and good health to complete my GCSE exam

I can use my knowledge of The science of food to complete my GCSE exam

I can use my knowledge of Where food comes from to complete my GCSE exam

I can use my knowledge of Cooking and food preparation to complete my GCSE exam