

What do you know? Design & Technology

Year 1

design a product which moves

use their own ideas to design something & describe how their own idea works

explain to someone else how they want to make their product and make a simple plan before making

make product which moves

choose appropriate tools and resources

use own ideas to make something

describe how something works

explain what works well & not so well in the model that they have made

make their own model stronger

cut food safely

Year 2

explain why they have chosen specific textiles

think of an idea and plan what to do next

choose tools and materials and explain why they have

chosen them join materials and components in different ways

join materials and components in different ways

measure materials to use in a model or structure (shelter)

explain what went well with their work

make a model stronger and more stable

use wheels and axles when appropriate to do so

weigh ingredients to use in a recipe

describe the ingredients used when making a dish or a cake

Vear 3

design a product and make sure that it looks attractive

choose a material for both its suitably and its appearance

prove that a design meets a set criteria

select the most appropriate tools & techniques

for a given task work accurately to measure, make cuts & make holes

make a product which uses mechanical components

follow a step-by-step plan, choosing the right equipment & materials

make a product which uses both electrical components

explain how to improve a finished model

know why a model has, has not been successful

know how to strengthen a product by stiffening a given part or reinforce a part of the structure

use a simple IT program within the design (link with graph recording)

Year 4

produce a plan and explain it

communicate ideas in a range of ways, including sketches and drawings which are annotated



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use ideas from other people when designing persevere and adapt when original ideas do not work know which tools are used for a specific task and show knowledge of handling the tool know which material is likely to give the best outcome measure accurately explain how the original design has been improved evaluate and suggest improvement for design present a product in an interesting way evaluate products for both purpose and design use IT where appropriate to add to the quality of the product link scientific knowledge by using lights, switches or buzzers use electrical systems to enhance the quality of the product know how to be both hygienic and safe when using food bring a creative element to the food product being designed Year 5 come up with a range of ideas after collecting information produce a step-by-step plan design a product that requires pulleys or gears explain how a product will appeal to a specific audience use a range of tools and equipment competently make a product that relies on pulleys and gears make a prototype before making a final version evaluate appearance and function against original criteria suggest alternative plans; outlining the positive features and drawbacks link specific knowledge of design by using pulleys or gears use more complex IT program to help enhance the quality of the product produced be both hygienic and safe in the kitchen know how to prepare a meal by collecting the ingredients in the first place know which season various foods are available for harvesting Year 6 show that culture and society is considering in plans and designs follow and refine original plans use market research to inform plans and ideas justify planning in a convincing way know which tool to use for a specific practical task know how to use any tool correctly and safely know what each tool is used for explain why a specific tool is best for a specific action know how to test and evaluate designed products evaluate product against clear criteria explain how products should be stored and give reasons



What do you know? Design & Technology

use electrical systems correctly and accurately to enhance a given product
know which IT product would further enhance a specific product
use knowledge to improve a made product by strengthening, stiffening or reinforcing
explain how food ingredients should be stored and give reasons
work with a budget to create a meal
understand the difference between a savoury and a sweet dish