

Subject Template: Design & Technology

How much curriculum time is given to Subject:

at KS2/KS3

Students are given the opportunity to study three Technology disciplines: Food Technology, Resistant Materials and Graphic Products over the year. These subjects are taught in a carousel system. Students study each discipline for approximately twelve weeks on a one lesson per week basis. All classes are mixed ability.

What topics is my child covering this term and what will they cover?

Year 5 Units of study

Resistant Materials: Spoon rest design & make task
Why is health and safety so important in the workshop?
How can I decorate, form and finish acrylic in the workshop?
How can I plan my practical so that it runs smoothly?
How successful is my product and how could it be improved?

Graphic Products: Blister packaging design and make task
What is blister packaging?
How can I successfully analyse existing products?
How is blister packaging made in industry and how can I make it in the workshop?
How successful is my product and how can it be improved?

Year 5 & 6

Food Technology: Introduction to Food Studio – Expectations & Safety
Do I understand health and safety requirements within food preparation?
How do we use knives to cut safely?
How do we ensure safety of moving equipment within the room?
Can I use instructional text to create a recipe?
Am I able to evaluate my end product?
Can I use instructional text to create a recipe?
What products are dairy?
Can we experience success in making a secondary product?
Am I able to follow a recipe?
Am I able to successfully combine ingredients?
Can I show understanding of why recipes are adapted?
What is meant by creaming method?
Am I able to successfully use this method?
Can I make informed decisions on products through tasting analysis?
Can I design a new product?

Year 6

Resistant Materials: Structures challenge
What is a structure?
What are forces and how do they act against a structure?
How can structures be stabilised?
Can I apply my structures knowledge to create a stable sledge design?
How do I apply Pythagoras to my sledge design?
What is a cutting list? Why is it useful during planning?
How can I make my structure using workshop techniques?
How successful was my sledge and how can it be improved?

Year 7

Resistant Materials: Night Light
How can we classify different wood? Why is wood so useful to us?
How will the light sensing circuit work in my product?
How can I create my nightlight using practical workshop techniques?
What are polymers and why are they so commonly used in our everyday lives?
How can I create a high quality practical finish?

Graphic Products: Logos and branding
What is a logo and why is it so important in the advertising world?
What makes a successful logo?
How are logos characterised?
What is a mood board and how can I use it to inspire my designing?
How can I apply a range of graphic techniques to create a successful logo?
How successful is my product and how can it be improved?

Food Technology:

*What safety aspects do I need to be aware of when using the ovens?
Am I able to make informed choices about ingredients through tasting analysis?
Am I able to successfully combine ingredients?
Am I able to recognise preparation techniques used within recipes?
Am I able to write an effective evaluation?
Am I able to explain why recipes are adapted?
Am I able to produce a completed product within time allowance?
Am I able to write an effective evaluation?*

Year 8

Resistant Materials: Free-standing Art-Deco Clock

*What is Art-Deco and what makes it unique?
What are heat treatments and how can they be applied to my design ideas?
Can I work with precision when working with tools and techniques?
How environmentally friendly are polymers?
What is CAD and how can I use it to create design ideas?*

Graphic Products Perfume & Aftershave packaging

*What is and what are the main functions of packaging?
What makes a successful perfume package?
Which materials are suitable for packaging and why?
How is packaging made?
How is a packaging net different to those used in maths?
How can I create a decorative box
How can I make a high quality graphics package?*

Food Technology:

The Design & Technology department also offers a range of enrichment activities through-out the year. These include after school clubs in: Cookery, Wood tech., young engineers and card making.

Websites to explore:

www.howstuffworks.com
www.technologystudent.com
www.geoffswoodwork.co.uk
www.bbcbitesize.co.uk
www.instructables.com
www.bbcgoodfood.com/recipes/collection/kids-cooking
www.pinterestcookingwithkids.co.uk

Books to try

KS3 Design & Technology, The Study guide by CGP books

Museums to visit

The Design Museum (Kensington)
The Victoria and Albert Museum (Kensington)
Fashion & Textile Museum (London Bridge)