



Everyone Every Lesson Every Opportunity

Follow W

taught in year 3

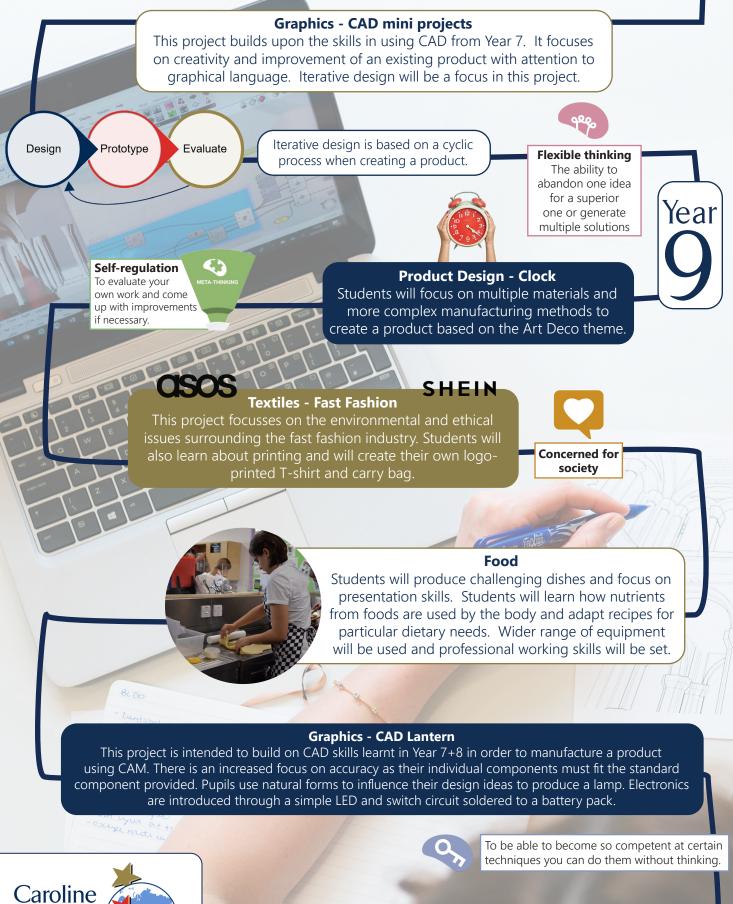
KS3 Design & Technology

Product Design Students will be introduced to Year the idea of **self-monitoring** and Manufacture a table ongoing evaluation of their work tennis bat as they manufacture their product. **Textiles - Koinobori windsock** This project is intended to build making Recipes will include Apple skills. Students will learn to safely but fabrics, use appliqué to create interesting crumble, SAFETY Pizza toast, FIRST projects and use a sewing machine. Macaroni Cheese and Ragu Food Students will begin studying food technology by first learning about hygiene and safety. They will learn about the 'Eatwell guide' and its function to a well Learning how to balanced diet. Student will use a range of techniques carefully apply such as using the hob & oven. techniques with a high level of skill **Graphics - Tangram** Students will research existing products and focus on the graphical aspect of colour/image/text. They will also be introduced to CAD and desktop publishing. Year **Product Design - Photo frame** Students will learn to cut halving joints. They will need to measure and mark out without the aid of Evolutionary templates. There will be a far greater emphasis on thinking accuracy of manufacture and quality control. To build on current ideas to come up with something better **Textiles** In this unit, students will use the Collaborative: The ability to seek out theme of 'day of the dead' to create opportunities to receive responses to your work their cushion cover. They will use the batik and tie-dye methods. Food

In Year 8, students will focus more on the function of ingredients in their food technology lessons. Dishes will develop in complexity and students will understand why particular ingredients are used in recipes. They will evaluate the food through sensory analysis as well as third party feedback. Strong emphasis on cultural foods.



Design & Technology



Ambition Confidence Success Everyone Every Lesson Every Opportunity

Chisholm

Design & Technology

Storage box and pewter casting This project introduces wood working and joining techniques. As well as rebate joints, student swill learn to use Onshape CAD software.

Creative and enterprising

The ability to be open-minded and flexible in your thought processes.

Core theory: Energy generation and storage

Year

Laminated products

Students are introduced to the lamination manufacturing technique, allowing them to produce impressive and interesting compound curve products. CAD skills are also further improved from last term.

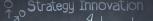
Core theory

Workshop processes

A series of mini practical projects designed to increase confidence in a range of techniques such as casting and 3D printing, while covering the associated theoretical knowledge.

Core theory: New and emerging technologies

Make links between the engineered structures that appear in nature to inform design decisions.





Non Examined Assessment (NEA) NEA tasks are published on 1 June and students will begin their major NEA project. This term includes investigation of possibilities and research.

Strategy planning The ability to approach new learning experiences by actively attempting to connect it to existing knowledge or concepts and hence determine an appropriate way to think about the work



10

GCSE Design & Technology

NEA - Worth 50% of final grade

Designing

00 00

Students use a variety of communication techniques to convey a range of design ideas. Iterative design is the main focus.

Developing Through drawing, modelling and CAD (Sketchup and Fusion 360) students develop their ideas towards a feasible final design.

Students work independently to make their final prototype, keeping a photographic record of all stages.

Making

Evaluating

Year

The final prototype is evaluated against the specification and 3rd party feedback and testing is used to prove it meets their wants and needs.

Throughout Year 11, students will study core theory aspects including mechanical devices, electronic systems and devices and design in context.

Students will work with surface treatments and finishes, stock forms and processing materials as well as sourcing materials.

CREATING

Fluent thinking: Being confident to create lots of different ideas and not be scared to fail

Angle of spoke and is si L's Vicibilities of the firm E) Angle of the source of the firm E) Angle of the source of the firm E) Angle of the source of th

* general ander * tube light - Dia ugus - Dia ugus - courge mate a **EXAM** May or June 1h 45m HARD WORKING

Worth 100 marks / 50% of final grade





