#### **CURRICULUM INTENT**

### What does Graphics help young people achieve at KS3? Why have you made these curriculum choices?

"GSCE" standard and present in a NEA formats. Pupils use advanced skills such as Rendering and 3D modelling.

Yr 11 - Graphics allows pupils to explore designing in both drawing, modelling and CAD. Pupils can use design influences and use real life topics for their projects that prepare them for a GCSE in D&T (paper and boards route / graphics). Each segment of the subject is a mini version of the assessment objectives that are needed for the N.E.A for year 10/11.

### TERM BY TERM BREAKDOWN – Knowledge, acquired and skills developed:

Year 10 Course Outline	Year 11 Course Outline
AUTUMN / SPRING / SUMMER TERM	AUTUMN / SPRING / SUMMER TERM
Core skills (enhanced)	Paper and Boards Core skills (50%)
PAGE LAYOUT	CAD (2d drawing and layout skills)
Pupils learn about vectorising and proportion, colour theory.	Typography
Pupils learn about the design process and the need for user opinions and how to	Illustration
modify designs as a result. ITERATION	Marker rendering
Rendering of the casing to GCSE/ pro standards to allow challenge.	Model making skills (packaging)
Metals , papers and board, polymers and timbers	Orthographic, perspective and Isometric drawings.
Illustration	Materials
Sketching	Paper making process
3d drawing (crating, shading and rendering)	Construction
User feedback and adapting designs.	Surface finishes
Socrative testing	Modern materials
Learning journey made for skills.	
Prep for NEA.	Theory into:
Spider diagrams , making choices	Metal, wood and polymer types and processes using them as lesson and HW
Research into cultures and trends	
User profiles	PRINTING AND TYPOGRAPHICS
<u>AUTUMN TERM</u>	AND DRAWING
	Pupils will learn about CMYK (litho/flexo) printing and how images are made up.
TOKYO SIGNAGE PROJECT- NEA MINI PROJECT	They will learn about crop marks and colour registration. This will be added to
User needs and trends (colours, themes etc)	their final design NET in order to make a "print ready" product.
Geometric construction in drawings:	AUTUMN TERM
Construction of arcs and shapes using technical instruments.	NEA PROJECT
Use of info graphics, pictograms.	2.3 Development of a chosen design
Creation of style guides. Event theming for a brief.	Technical development
Advanced CAD skills	Manufacture and special processes
Design iterations for new uses.	Graphical choices and professional presentation (layout and reg marks)
Materials choices and materials in outdoor use.	Materials choices
	Scales/ full sized model
	2.4 Review of Chosen design
	User feedback and alterations
	<ul> <li>Parts list as a result of fine-tuned design</li> </ul>
<u>SPRING TERM</u>	Evaluation against the spec
PRET FOOD PACKAGING- NEA MINI PROJECT	
Reverse engineering and recording data.	SPRING TERM
Net development	3.1 – 3.1B – 3.2 Manufacture, skills and processes, Quality and accuracy
Card modelling techniques	<ul> <li>Detailed making plan</li> </ul>
Numeracy and layout skills (areas and materials sizes)	<ul> <li>Jigs, templates and computer prep</li> </ul>
Movement in drawings (openings and pull outs)	<ul> <li>Processes and machinery identified</li> </ul>

# **Opportunities beyond the classroom Opportunities beyond the classroom** Pupils are given HW that extends their knowledge further: • Design inspirations from around the world. (used in products) • Packaging research, reverse engineering and design layout of packaging for existing products. • Pupils are encouraged to get user feedback and to base ideas on specifications. • Pupils are encouraged to purchase rendering markers, try out techniques and home. Pupils use are encouraged to apply design ideas to real life objects and to present them as a real designer would. Teacher to feed ideas from their experience (architecture, graphic design) To inspire pupils. This will include famous designers and designs that they should learn from. Possible design competitions Primary liaisons in school at the primary to increase knowledge. User feedback and testing to be "real life" and prepare pupils for collect, university or jobs in design

Exploded drawings.	User feedback
Logo branding and surface techniques	Making Diary – Evidence:
Plastic techniques (vacuum forming) interior moulds	Templates used for accuracy
Understanding the NEA process through PowerPoints.	Stages followed from plan
	Pupils show care in making outcome
	<ul> <li>Graphics made and applied to high standard</li> </ul>
SUMMER TERM	Errors and modifications are shown, and improvements are mad
NEA START - June	4.1 Evaluation and testing
	How well product meets spec
1.1-1.2	How well product meets user needs
Pupils topic choices	Hand on testing with evidence
Research and context identified	<ul> <li>Sustainability and Moral, Social, Cultural issues covered</li> </ul>
User profile created and initial thoughts in PowerPoint.	Improvements identified and designed.
This leads into year 11 NEA tasks shown.	
	Project internally moderated.
Research and user profile completed, and locations, users and wider market	Presentations prepared for copying to USB and submission to exam boar
presented over summer holidays as summer project.	Video commentary made by teacher
1.2 Specification	
Specification and requirements for the user and product.	
Video, photographic evidence needed.	
2.1 Design Ideas	
Wide range of sketches (aim for 3D) with annotation	
Design developments	
Model prototypes and experiments	
Sustainability of designs	
2.2 Review of ideas	
Critical analysis of ideas	
How to take the design forward	
• What do improve and further technical research.	
• User feedback and responding to it.	
ependent Learning Resources	

The Materials Sourcebook for Design Professionals Hardcover

## GREAT READS

Product Design Styling By Peter Dabbs

Origins: The Creative Spark Behind Japan's

Best Product Designs – 9784770030405

Archidoodle: An Architect's Activity

Book Paperback – Illustrated