

Year 9	Projects	Knowledge	Development	Skills	Key Vocabulary	What to research at home/ recommended websites and reading list
<b>Autumn Term 1</b>	Workshop Recap	Students will recap and show their understanding of the health and safety implications of what not to do in a workshop or DT lesson gained over the last 3 years.	Students will complete a series of tasks on each machine via demonstration and recording health and safety issues.	Health and Safety, Hand Tools, Machinery	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'
	ICT Skills 2	Students will be prepared for and introduced to the NEA process.	Students will understand shortcuts, templates, powerpoint, CAD by completing a template design on powerpoint	CAD, Software, Design, Maths, Templates, PowerPoint, Layout		
<b>Autumn Term 2</b>	Architecture	Students to gain further knowledge of CAD (Google Sketchup). Knowledge of Architects/ Designers	Students to develop skills using Sketchup software to produce virtual 3D drawings (2D to 3D). Knowledge of buildings, design movements and architects	Architecture, CAD, Design movements, Sketchup software	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Spring Term 1</b>	Bird House	Students to develop knowledge of the iterative design process and communicating design ideas.	Students are to manufacture a bird house using traditional joinery techniques based upon extensive designing	Maths (roof pitches), manufacture, finger joints, hole saws, gluing, nailing, cladding, tiling, finishes - paint, varnish, stains	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Spring Term 2</b>	Design Movements	Students to develop knowledge of the key design movements of the 20th Century	Students will apply knowledge of design movements across a range of design situations. They will produce a design movement inspired product	Design movements, Bauhaus, Art Deco, Art Nouveau, Streamline Age, Eras, Arts and Crafts, Modernism, Post Modernism, De Stijl	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Summer Term 1</b>	Design Movements	Students to develop knowledge of the key design movements of the 20th Century	Students will apply knowledge of design movements across a range of design situations. They will produce a design movement inspired product	Design movements, Bauhaus, Art Deco, Art Nouveau, Streamline Age, Eras, Arts and Crafts, Modernism, Post Modernism, De Stijl	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Summer Term 2</b>	Pull Along Toy	Students to develop knowledge of the iterative design process and communicating design ideas. To develop specialist techniques and processes with a mechanical devices specialism.	Students are to design and make toys using a range of hand tools and man made boards including decorative embellishments and awareness of stock forms.	Mechanisms, automations, gears and pulleys, manufacture, timbers, wheels and axels, cams, moving parts, finish - paint	Please refer to the KS3 DT Keywords List and Refer to the Technical Vocabulary Dictionary	Please refer to the 'DT-KS3-Read-and-watch-list'

### KS3 Keywords

design	create	safety
designing	assemble	goggles
creating	evaluate	apron
review	evaluation	aesthetics
investigate	review	appearance
research	judge	cost
analyse	improve	price
analysis	suggest	economy
specify	user	environment
specification	client	surroundings
develop	consumer	consumer
improve	essential	user
explain	desirable	client
plan	necessary	function
predict	one-off	purpose
organise	batch	role
make	continuous	woods
smart	plastics	metals