

Year 7	Projects	Knowledge	Development	Skills	Key Vocabulary	What to research at home/ recommended websites and reading list
<b>Autumn Term 1</b>	Intro to Workshop	Students will gain valuable knowledge and an understanding of the health and safety implications of what not to do in a workshop or DT lesson	Students will complete a series of tasks on each machine via demonstration and recording health and safety issues	Health and Safety, Hand Tools, Machinery, workshop processes and procedures	Please refer to the KS3 DT Keywords List	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Autumn Term 2</b>	Charging Station	Students to develop knowledge of materials and making principles.	Students will complete a series of practical tasks to develop knowledge and understanding of materials and components, specialist tools and equipment and techniques and processes.	Playwood, cross halving joints, dowels, drilling, laser cutting, CAD, measuring and marking, maths, hand tools, cutting, sanding, finishing (varnish, stain or paint)	Please refer to the KS3 DT Keywords List	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Spring Term 1</b>	Night Light  Night Light	Students to gain a deeper knowledge of timbers (hardwood/manufactured boards), as well as CAD/CAM.  Students will gain valuable knowledge of electronics (systems and control)	Students will develop knowledge of adhesives, timbers and CAD/CAM to create a Night light  Students will develop their understanding of electronics and the soldering process	Manufacturing using CAD/CAM, electronics, soldering, circuits, finger joints, 2D Design, Switches, Finishes, LED Lights	Please refer to the KS3 DT Keywords List	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Spring Term 2</b>	Logo Project	Students to gain knowledge of Branding/ Logos as well as CAD/CAM and introduction to PowerPoint Presentations	Students will develop knowledge of 2D Design tools and CAD/ CAM skills to design a unique logo.	Branding, ICT Skills, CAD/CAM, Acrylics, Design, Layout, Fonts	Please refer to the KS3 DT Keywords List	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Summer Term 1</b>	Slotted Animal Toy	Students to gain a deeper knowledge of /manufactured boards), as well as CAD/CAM.	Students will gain a knowledge of commercial manufacturing methods	Joints, MDF, Plywood, manufacture, CAD/CAM, Design, Sanding, Finishing	Please refer to the KS3 DT Keywords List	Please refer to the 'DT-KS3-Read-and-watch-list'
<b>Summer Term 2</b>	Slotted Animal Toy	Knowledge gained on CAD/CAM	Developing knowledge of tolerances through CAD		Please refer to the KS3 DT Keywords List	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