

Year 7 D&T (project order determined by teaching area – all projects completed over the course of the year)

Autumn	Spring	Summer
<p><u>Autumn Term</u> Intro to design skills and terminology via 'Kensuke's Kingdom'</p> <p>Automata project part 1</p> <p><u>Autumn Term 2</u> Automata project part 2</p>	<p><u>Spring Term 1</u> Introduction to textiles – elementary project</p> <p><u>Autumn Term 2</u> Wall hangings Textiles key terms</p>	<p><u>Summer Term 1</u> Structures Project</p> <p><u>Summer Term 2</u> Graphical communication</p>
<b>Assessment and Exams</b>		
<p><u>Autumn Term 1</u> Levers and cams assessment 1 Exam style questions – classes of lever</p> <p><u>Autumn Term 2</u> Automata outcome</p> <p>Workshop key terms test</p>	<p><u>Spring Term 1</u> Design packages outcome</p> <p><u>Spring Term 2-Hall controlled exam</u> Wall hanging practical outcome Key terms test</p>	<p><u>Summer Term 1</u> Structures theory test Project outcome - structures</p> <p><u>Summer Term 2</u> End of year test Project outcome – graphical communications</p>

**Year 8 D&T (project order determined by teaching area – all projects completed over the course of the year)**

<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
<p><u>Autumn Term 1</u></p> <p>Bottle balance including elements of maths in D&amp;T.</p> <p>Designing with an awareness of material properties.</p> <p>Modelling for development.</p> <p><u>Autumn Term 2</u></p> <p>Practical skills and workshop independence</p> <p>Introduction to programmable control</p>	<p><u>Spring Term 1</u></p> <p>Textiles design – Puguglies</p> <p>Textiles theory and knowledge enhancement</p> <p><u>Spring Term 2</u></p> <p>Practical skills within textiles</p> <p>Sustainability within D&amp;T</p> <p>Introduction to Smart Materials</p>	<p><u>Summer Term 1</u></p> <p>Structures Project</p> <p><u>Summer Term 2</u></p> <p>Graphical communication</p>
<b>Assessment and Exams</b>		
<p><u>Autumn Term 1</u></p> <p>Key terms 1</p> <p>Precision drawing for production</p> <p>Project outcome – bottle balance</p> <p><u>Autumn Term 2</u></p>	<p><u>Spring Term 1</u></p> <p>Textiles key terms</p> <p>Design outcomes - Puguglies</p> <p><u>Spring Term 2</u></p> <p>Sustainability key terms</p>	<p><u>Summer Term 1</u></p> <p>Structures theory test</p> <p>Project outcome - structures</p> <p><u>Summer Term 2</u></p>

Project outcome – bottle balance Key terms 2	Smart Materials GCSE style questions	End of year test  Project outcome – graphical communications
-------------------------------------------------	--------------------------------------	--------------------------------------------------------------------

Year 9 D&T		
Autumn	Spring	Summer
<u>Autumn Term 1</u> Ergonomics and Anthropometrics Flat pack furniture 1:5 scale chair Wood processing and conversion  <u>Autumn Term 2</u>  Programming and control – servo motors Plastic processing and conversion	<u>Spring Term 1</u> Structures Programming and control 2 3D CAD via Sketchup  <u>Spring Term 2</u>  Bottle balance Theory revision of topics covered to date	<u>Summer Term 1</u> Sources of energy Sustainability Iterative design techniques  <u>Summer Term 2:</u> New and emerging technologies CAD/CAM with purpose Industry and enterprise Smart materials

Mechanisms Maths in D&T		
<b>Assessment and Exams</b>		
<u>Autumn Term 1</u> Ergonomics key terms 1:5 chair design work Wood Theory Test  <u>Autumn Term 2</u> Mechanisms exam questions including D&T maths assessment	<u>Spring Term 1</u> Structures theory test  <u>Spring Term 2</u> Mock exam covering all theory sections taught to date. List issued prior to exam	<u>Summer Term 1</u> Exam style questions on sustainability and sources of energy  <u>Summer Term 2</u> CAD/CAM outcome Smart materials theory questions

<b>Year 10 D&amp;T</b>		
<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>

<p><u>Autumn Term 1</u> Ergonomics and Anthropometrics Wood processing and conversion Jigs and production aids</p> <p><u>Autumn Term 2</u> Aluminium frame Metal processing and conversion Scales of production CAD/CAM – Bud vase</p>	<p><u>Spring Term 1</u> Programming and control – servo motors Plastic processing and conversion Mechanisms Maths in D&amp;T</p> <p><u>Spring Term 2</u> Structures Programming and control 2 3D CAD via Sketchup</p>	<p><u>Summer Term 1</u> Sources of energy Sustainability Iterative design techniques</p> <p><u>Summer Term 2:</u> New and emerging technologies CAD/CAM with purpose Industry and enterprise Smart materials</p>
<h3>Assessment and Exams</h3>		
<p><u>Autumn Term 1</u> Ergonomics key terms Bottle balance design work Wood Theory Test</p> <p><u>Autumn Term 2</u> Metal Theory Test CAD/CAM exam questions Aluminium frame outcome</p>	<p><u>Spring Term 1</u> Mechanisms exam questions including D&amp;T maths assessment</p> <p><u>Spring Term 2</u> Mock exam covering all theory sections taught to date. List issued prior to exam</p>	<p><u>Summer Term 1</u> Exam style questions on sustainability and sources of energy</p> <p><u>Summer Term 2</u> CAD/CAM outcome Smart materials theory questions</p>

## Year 11 Product Design (Legacy Course)

Year 11 Product Design (Legacy Course)		
Autumn	Spring	Summer
<p><u>Autumn Term 1</u> Final development including CAD modelling and card prototype</p> <p>Primary practical sessions</p> <p><u>Autumn Term 2</u> Advanced manufacturing, including detailed assemblies for final product. Electronic circuit complete.</p> <p>Finishing techniques, including CAD/CAM where appropriate</p>	<p><u>Spring Term 1</u> Evaluation of outcome and final controlled assessment paperwork Core materials theory</p> <p><u>Spring Term 2</u> Design considerations theory</p> <p>Mock written exam</p>	<p><u>Summer Term 1:</u> Pre-release material study Final revision</p> <p>Written exam paper</p>
Assessment and Exams		
<p><u>Autumn Term 1</u> Controlled assessment - Research section complete and submitted</p> <p><u>Autumn Term 2</u></p>	<p><u>Spring Term 1</u> Controlled assessment - Evaluation Materials theory Assessments</p> <p><u>Spring Term 2</u></p>	<p><u>Summer Term 1</u> Revision mock papers as issued</p> <p>Written Exam Friday 22<sup>nd</sup> June 2018</p>

Controlled assessment - Development section complete	Design considerations theory Assessments	
Controlled assessment - Practical outcome complete, less finishing techniques	Mock written exam	