

DT KS3 *Teachers to swap/rotate around the different teaching rooms: Wood, Metal, PC Suite / Plastics

Year	SUMMER ½ TERM (5WKS) (June - July)	AUTUMN TERM (10 WKS)	SPRING TERM (10WKS) <i>*YR7 Race for the Line House Challenge.</i>	SUMMER TERM ½ Term (5WKS) (Easter - May) <i>*YR9/10 Trip to the Design Museum, London.</i>
7	<p style="text-align: center;">STEM Activities/ Sustainability Challenges</p> <p style="text-align: center;">TBC</p>	<p style="text-align: center;"><u>Metals</u></p> <p>Candle Holder: Mild steel rod/sheet, rivets, acrylic paint.</p>  <p>Key Concepts, Skills & School Values: Marking out, cutting, shaping/smoothing, drilling, construction, finishing/painting. Wisdom.</p> <p>KS4 Links to materials and their working properties, origins of materials, surface treatments and finishes, use of jigs, templates & batch production, specialist tools and equipment.</p>	<p style="text-align: center;"><u>Woods</u></p> <p>Pencil Box Project: Pine, hardboard, plywood, PVA, stain/varnish/wax.</p>  <p>Key Concepts, Skills & School Values: Measuring, cutting, smoothing/shaping, pillar drill, construction (PVA), finishing techniques. Wisdom, hope.</p> <p>KS4 Links to materials and their working properties, origins of materials, surface treatments and finishes, use of jigs, templates, batch production.</p>	<p style="text-align: center;"><u>Plastics CAD/CAM</u></p> <p>Ruler to fit pencil box & Keyring: Coloured acrylic, split rings.</p>  <p>Key Concepts, Skills & School Values: Designing, 2D Design software, laser cutting, measurements, designing for a requirement. Wisdom, Hope & Dignity.</p> <p>KS4 Links to materials and their working properties, origins of materials, designing for manufacture and tolerances, design strategies, ecological & social footprint, specialist techniques and processes.</p>
8			<p style="text-align: center;"><u>Woods</u></p> <p>Mechanical Toy: Pine, plywood, MDF, hardboard, printed paper/acrylic paint.</p>  <p>Key Concepts, Skills & School Values: Designing, measuring, cutting, smoothing/shaping, pillar drill, construction (PVA), Joints, cams, movement, basic mechanics. Wisdom & Community.</p> <p>KS4 Links to mechanical devices, forces and stresses, tolerances, specialist techniques and processes, stock forms, use of jigs, templates, communication of ideas, prototype development.</p>	<p style="text-align: center;"><u>Plastics CAD/CAM</u></p> <p>Acrylic Clock: Coloured acrylic, clock mechanism.</p>  <p>Key Concepts, Skills & School Values: Designing, 2D Design software, laser cutting, line/heat bending, measurements, designing for a client/requirement. Wisdom & Community.</p> <p>KS4 Links to design strategies, communication of ideas, material management, communication of ideas, working to client requirements.</p>

<p>9</p>	<p style="text-align: center;"><u>Woods</u></p> <p>Memphis Inspired Desk Tidy: Plywood, MDF, decoupage, PVA, stain/acrylic paint.</p>  <p>Key Concepts, Skills & School Values: Research of Design Eras, style, Ergonomics/ Anthropometrics, designing, measuring, cutting, smoothing/shaping, drilling, construction, finishing techniques. Wisdom, Hope & Community.</p> <p>KS4 Links to the work of others, communicating ideas, investigation of primary and secondary data, systems approach to designing, strategies in designing, specialist techniques and processes, stock forms, selection of materials/components, surface treatments and finishes, prototype development.</p>	<p style="text-align: center;"><u>Plastics Vacuum Forming</u></p> <p>Recycled Phone/Device Stand: HDPE. vacuum formed letters/sign: HIPS plastic sheets, MDF.</p>  <p>Key Concepts, Skills & School Values: Sustainability, recycling/forming materials, designing, manufacturing methods, molding, designing, cutting, shaping. Wisdom, Hope Community & Dignity.</p> <p>KS4 Links to materials and their working properties, origins of materials, designing for manufacture and tolerances, design strategies, ecological & social footprint, specialist techniques and processes.</p>	<p style="text-align: center;"><u>Metals</u></p> <p>Mirror/Picture Frame: Metal Craft (mild steel), mirrored/clear sheet acrylic, acrylic paint..</p>  <p>Key Concepts, Skills & School Values: Designing for a client, marking out, cutting, shaping/smoothing, drilling, construction, finishing. Wisdom & Community.</p> <p>KS4 Links to materials and their working properties, origins of materials, surface treatments and finishes, use of jigs, templates & batch production, specialist tools and equipment, communicating ideas, tolerances.</p>	<p style="text-align: center;"><u>Tatty Devine</u></p> <p>GCSE NEA/Coursework Practice Project.</p>  <p>Jewelry design.</p> <p>Key Concepts, Skills & School Values: Investigating the work of others, applying designing and making skills, creating a portfolio following the design process.</p> <p>Wisdom, Dignity, Community.</p> <p>KS4 Links to the work of others, investigation of primary and secondary data, systems approach to designing, strategies in designing, communicating ideas, designing for a client, developments in new materials, selection of materials/components, tolerances. prototype development.</p>
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The Priory School Offers both GCSE and A-Level Design and Technology with AQA (exam board).