

Year 8

Subject Design and Technology		
Intent for the Year		
<p>In year 8 D&T continues to build on the technical knowledge and skills learnt in year 7</p> <p>Pupils at Key Stage 3 follow the National Curriculum Programme of Study, which provides a broad background framework for all we do in Year 7, Year 8 and Year 9. Pupils work in well-equipped workshops and computer suites carrying out a range of design-and-make activities and focused practical tasks.</p> <p>Our curriculum is designed to encourage creativity, develop problem solving abilities and a general enthusiasm for designing and making – by ensuring we work with a wide range of materials in a variety of different contexts. Pupils are also encouraged to reflect on the wider impact of D&T – for example, the sustainability of the materials they work with.</p> <p>Open-ended design tasks are often used to allow for maximum extension/challenge and maximum progress. Support is also given to enable all to engage, feel confident and achieve.</p>		
Topics Covered		
<p>Structures: Modelling materials, types of properties, joining and stock forms, Structures, Levers and CAD</p> <p>Mechanical Advertisement: Timers: Types, properties, joining and stock forms, Motion and Change of motion, cams and followers.</p> <p>Blister Pack and Key ring: Basic design work including colour, typography, and imagery. CAD: 2D design and photoshop. Polymers including HIPS, acrylic. Vacuum forming.</p>		
Parents/Carers can help by...		
<ul style="list-style-type: none"> • Talking to your child about the topics studied in class. • Encouraging to complete homework tasks • Bring the correct equipment including protractor, calculator, and a sharp pencil. • Do some DIY or craft at home with them! 		
Useful Websites		
<p>https://www.technologystudent.com/</p> <p>https://www.bbc.co.uk/bitesize</p> <p>allsaints.dorset.sch.uk- Resources -Year 8-D&T</p>		
Recommended Reading		
Book Title	Author	Brief Reasoning
How things Work	Conrad Mason	A fun and interactive way of learning
Make Electronics (3 rd Ed)	Charles Platt	Comes highly recommended
All-New woodworking for kids	Kevin McGuire	Practical projects you can make at home