

YEAR 7-11

DESIGN TECHNOLOGY

DESIGN TECHNOLOGY – YEARS 7-8

In year 7 students complete the below areas on a rotation and will rotate every 9 weeks. All classes will complete these areas in a different order.

7	• Textiles • Timber project • Electronics • Food preparation and nutrition
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In year 8 students complete the below areas on a rotation and will rotate every 9 weeks. All classes will complete these areas in a different order.

8	• Textiles • Architecture • Materials – Wind chime • Food preparation and nutrition
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DESIGN TECHNOLOGY – YEARS 9-11

In year 9 students will study both Design Technology and Engineering skills to help them inform their preference choices and ensure they have the skill set to follow either of our pathways.

9	• Textiles – Hats • Timbers – Bug hotel • 3D printing • Casting • CAD/CAM • Electronics and Microbits • Mock NEA style modelling project
10	• Eating away from home project • Lighting • Manufacturing skills • Theory embedded throughout • Drawing skills and techniques • CAD/CAM
11	• NEA from September until March • Throughout the NEA lessons core technical principles are also taught. • Spring term 2 from March NEA deadline - Exam preparation with revision and focus practical tasks



FOOD PREPARATION AND NUTRITION – YEARS 9-10

9	Autumn term • Eatwell guide • Macro and micronutrients • Practical skills • Food safety • Cooking methods • Food provenance Spring term • Food science • Food investigations • Food choices • Different cuisines • Practical skills Summer term • The 6 food commodities • Hospitality and catering • Practical skills • Cuisines • Food events
10	Autumn • Core knowledge • Nutrition • Diet and lifestyles • Carbohydrates • Fibre • Vitamins and Minerals • Practical skills • Fruits and vegetables • Seasonality • NEA1 and NEA 2 mocks Spring term • Dairy • Processing • Pasta • Farming • Cooking methods • Cereals • Bread • Practical skills Summer term • Pastry • Health conditions • Meat • Fish • Alternative proteins • Fats • Practical skills

11	Autumn term 1 - NEA 1 Autumn term 2 until March - NEA 2 From March – Exam preparation
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ENGINEERING – YEARS 10-11

10 ENGINEERING	Autumn term • Materials • Tools • Techniques • Processes • Practical skills • Metal processes • Maths Spring term • Electronics • Microbits • Programming • CAD/CAM • Maths Summer term • Bridges • Mechanisms • Exam techniques • Maths
11 ENGINEERING	• NEA from September until March • Throughout the NEA lessons core technical principles are also taught. Spring term 2 from March NEA deadline - Exam preparation with revision and focus practical tasks