

Subject: Design and Technology

Year Group	Topic 1	Topic 2	Topic 3	Topic 4	Topic 5	Topic 6
7	Ice scraper Design – developing design communication	Ice Scraper Practical – using acrylic	Play structure Design – developing imagination through design	Key ring design – Computer aided design and computer aided manufacturing		
8	Bag design – developing analysis and use of images to develop design with smart materials	Maze design – with tessellated shapes	Maze practical – using wood, core foam board and acrylic	Computer aided design and hand technical drawing skills	Bridge design – Team work, discovering forces and stresses	
9	Shipping container Project – Social and ethical issues in design and enterprise.	Shipping container- Team modelling practical – using a range of materials and computer aided manufacturing	Design movements investigation	Computer aided design and technical drawing techniques	Bird feeder practical – using a range of materials, tools and machinery	
10	Mobile phone design – developing drawing skills and imaginative use of inspirational images	Street furniture analysis – understanding ergonomics, empathy and inclusive design	Wooden box – using joints and hinges Diary of making	Mechanisms – investigation and pop-up card, using card	Energy generation and storage investigation and presentation	Tea light holder practical - using PVC Foamex, hand tools and scroll saws. Incorporating scales of manufacture
11	NEA – Context set by exam board – Identifying and Investigation in preparation for design of own product	NEA – Generating design ideas	NEA – Developing design ideas, with modelling	NEA – Realising design idea through making a prototype	NEA – Analysis and Evaluation of design idea	Theory readdressed in preparation for written exam

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