

Bishop Stopford's School

Curriculum Map Year 8

Engineering

The ADT curriculum is delivered through a carousel with each student engaged in one subject per term.

Cur	rriculum Intent:	neering		echnology	in one subject per term. Art	
	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Unit of work	Y8 learners will continue to work will developing their understanding of m research skills looking at primary and 5 work as both an individual and as a research and develop a design spec potential consumer. Learners will mechanism and how they provide at everyday mechanical systems. Learne based technical drawing styles and ho manufacturing, Learners will utilise including CAM in order to produce a evaluate the products success against design and manufacturing proces	Aechanisms In the Herative design process further odern design. Learners will refine their codern design. Learners will refine their condary research material. Learners will sart of a team in order to review their fication to meet a design need set by I develop an understanding of basic anamission of conversion of movement in s will be introduced to manual and CAD will design information is conveyed with a range of manufacturing techniques product from a range of materials, then the design specification. A review of the will then provide learners with the tail modifications for the future.				
Core Skills	Analysis Numerical Skills Technical drawing skills CAD CAM Workshop/, safety skills Literacy Skills Literacy Skills Decision making Evaluating					
Core Knowledge	Types of motion Levers Pulleys Gears Gear ratio Mechanical advantage					
Assessment & Feedback	Assessment 1- Students undertake an assessment involving the interpretation of the suppkied design brief and application of design skills	Interim Assessment-Safe manufacturing processes and the application of CAD CAM. Summative Assessment- Knowledge and understanding of the iterative design process. The effective use of product evaluation techniques				
Link to prior learning	Graphical skills- progression to the use of 30 drawing techniques (Oblique) the correct use of engineering Elevations and the production of basic 3rd angle orthographic projection Working to meet the needs of a client Development of product Analysis skills Development of Specification writing Development of Specification writing Development of Evaluation techniques					
Outside learning/trips						