CURRICULUM PROGRESSION PATHWAYS SUBJECT: DESIGN AND TECHNOLOGY HOD: Mr J Case 2020/21

Quality of Education: Curriculum is planned and sequenced so that new knowledge and skills build on what has been taught before and leads towards a clearly defined end point.

Vision: We aim for our students to meet demands of an ever-changing technological world by building a repertoire of skills and knowledge that encourages, creativity, independence and reflective thinking.

KS3:		KS4 GCSE AQA Design and Technology		Further Education and
Assessments:				training, Careers
Testing on theory and vocabulary.				
Evaluating- peer on peer assessment				
Yr7 Yr8 Project rotation: Project rotatio	· ·	Year 10: AQA Design Technology	Year 11: Non-exam assessment will contribute towards 50%	Vocational qualifications (BTECs, NVQ/SVQs,
Ruler project (acrylic- plastics) Buzzer toy (ele Mirror stand (v Spinning disc toy (wood) Photo frame (p	vood) Balancing toy (wood and metal)	Introduction: Written exam: 2 hours 50% of GCSE 50% Practical coursework NEA Projects: Jewellery (pewter) / Light box /	of the student's overall mark. The NEA project in its entirety should take between 30–35 hours to complete and consist of a working prototype and a concise portfolio of approximately 20 pages of A3	diplomas) graphic design, fashion styling, art and design, media, engineering,
Graphics Lift off CD Clock project (plastic & woo		Practise NEA brief. Knowledge:	paper, equivalent A4 paper or the digital equivalent	photography, construction and building, motor vehicle technology
Knowledge: Planning Timescales Creative designing Modelling and prototypes Materials Skills: Wood work CAD/CAM skills Technical Drawing skills Plastic skills Sander Pillar drill Knowledge: Electronic diag: (STEM) Vacuum formir Independence on machines Health and safe Skills: Development r Health and safe electronics Coding Line bending Tennon saw	Intricate 2D designing using CAD/CAM Engraving methods hand or machine Metals Design and Technology key designers Industry	New and emerging Technologies Industry/ Enterprise / Sustainability Automation - technology push/market pull affects choice. Changing job roles due to technological change. Culture / Society / Environment / Production techniques and systems Critical evaluation of new and emerging technologies informs design decisions Classification and properties of Materials Skills: Exam skills Longer mark question responses Practising reading and analysing exam questions Designing and making joints under controlled conditions	Knowledge: Designing and making Electronic and mechanical systems Wood metals and polymers Textiles Paper and board. Using materials efficiently Manufacturing Specifications Developing and prototypes Evaluation. Skills: Making design strategies Prototype development Communication of design ideas - 2d and 3D Responding to exam criteria/questions Creating a3 portfolio Structuring a body of work	Apprenticeships product designer, theatre set carpenter, farrier, service technician, civil engineer, plumber, design and draughting technician. model maker A levels design and technology, product design (3D), product design (textiles), systems and control technology, Related subject: Art, graphic design, media, music technology, computing, maths, physics, photography, sculpture, textiles, engineering, architecture.