Curriculum Map
Year 7 Design & Technology
Students undertake a rotation for Design & Technology, Food Preparation & Nutrition and Music. They study two terms of each subject through Year 7, 8 and 9.

St.Thomas More
CATHOLIC VOLUNTARY ACADEMY

ASPIRE #BeMore

(A)UTHENTIC (S)ACRED (P)ASSIONATE (I)SPIRATIONAL (R)ESILIENT (E)MPATHETIC

Y7 Design & Technology

Term 1.1 Tangram Project	Term 1.2 Tangram Project	Review of learning DIRT & summative 2 assessment points: 1) Measuring 2) Final Practical Outcome	Term 2.1 Moving Monsters Project	Term 2.2 Moving Monsters Project	Review of learning DIRT & summative 2 assessment points: 1)Types of motion, cams and levers 2)Final Practical Outcome 3) End of year exam
Unit intent: **Health and safety in the workshop**. During their first half term in Design & Technology students will learn the importance of health and safety in the workshop, including health and safety rules and hazard signs and symbols. **Measuring & use of production aids** Students will learn the importance of measuring accurately and the ability to convert units of measurements. Time will be spent teaching students to use the steel rule, try square and mitre square accurately and correctly	**Unit intent:** **Final Practical Outcome** During this next half term students will use their understanding of both health & safety and measuring accurately to produce a Tangram puzzle for a child The skills will include: • Marking and measuring accurately • Reading an orthographic projection • Cutting and shaping timbers using hand tools • Using the pillar drill and sander • Working safely and sensibly with tools and machinery • Applying appropriate finishes	**<u>Disciplinary knowledge</u>** Converting unit of measurement, health and safety. cutting techniques, shaping techniques Joining techniques, finishing techniques, hand tools **<u>CST</u>** Solidarity Dignity of Work and Participation **<u>Careers</u>** Discussion around the types of careers that can stem from D&T **Reading 3-2-1**	**Unit intent:** **Motion** During their second term in Design & Technology students will learn about: - • Types of motion • Simple machines • 1st, 2nd and 3rd class levers • Mechanisms • Cams	**Unit intent:** **Final Practical Outcome** Pupils will use the understanding gained to produce a mechanical toy. • Marking and measuring accurately • Reading an orthographic projection • Cutting and shaping timbers using hand tools • Using the pillar drill and sander • Working safely and sensibly with tools and machinery • Applying appropriate finishes • Assembling components	**<u>Disciplinary knowledge</u>** Types of motion. Orders of levers, cutting techniques, shaping techniques Joining techniques, finishing techniques, hand tools **<u>CST</u>** Solidarity Dignity of Work and Participation **<u>Careers</u>** Engineering roles and problem solving in the design and development of moving products