Subject: DT		Year Group: 7
Term 1 Key Focus/Topic(s): **Marble run** • Problem solving • Team work • Testing and Evaluating • Familiarise with Moodle and SMHW (Show My Homework) **Toothbrush** • General workshop health and safety. Sign off pillar drill and heat strip on passport. • Know the importance of specification. • Presenting data - pictographs and pie charts. • CAD - 2D Design and Space Claim. • Card Modelling • Flow diagrams • Developing a design	Term 2 Key Focus/Topic(s): **Maze** • Gent saw (sign off on passport) • Mitre block (sign off on passport) • Hand drill (sign off on passport) • Measuring • Glue application • Vice • File • Planning and developing a design • CAD - Sketch-up Soft and hardwoods. • Manufactured boards.	Term 3 Key Focus/Topic(s): **Maze** (See Term 2)
Term 1 Assessment Opportunities : • Testing the marble run – class scoring. • Signed off H&S passports for heat strip. • Grade for CAD, and finished practical. • End of STEM, H&S and Toothbrush test. • Weekly SMHW (Show My Homework) quizzes & tests.	Term 2 Assessment Opportunities: • Maze CAD • Weekly SMHW (Show My Homework) quizzes & tests.	Term 3 Assessment Opportunities: • Maze practical grade. • End of project test. • Weekly SMHW (Show My Homework) quizzes & tests.
Term 4 Key Focus/Topic(s): **Egg** • Coping saw (sign off on passport) • Drawing and rendering. • Hand drill (sign off on passport) • Working with aluminium. • Metals • Quality control • Evaluating	Term 5 Key Focus/Topic(s): **Lever Toy** • Create a toy using levers and linkages. • Understand importance of ergonomics and anthropometrics in design. • Design development - create variations of creative designs using drawing and modelling techniques. • Know a variety of materials and their properties.	Term 6 Key Focus/Topic(s): • Lever toy • (see Term 5)

Long-term overview for Year 7 DT

	• Develop making	
Term 4 Assessment Opportunities : • Egg holder CAD • Finished practical egg holder grade. • End of project test. • Weekly SMHW (Show My Homework) quizzes & tests.	Term 5 Assessment Opportunities • Card Model • Weekly SMHW (Show My Homework) quizzes & tests.	Term 6 Assessment Opportunities • Finished Lever Toy • Weekly SMHW (Show My Homework) quizzes & tests.

Rationale:

The aim for Year 7 is initially to get them comfortable and safe in the workshop environment, then each project builds skills that are used for GCSE. They cover polymers, wood, metals and card across the year – all relevant to GSCE. These projects cover practical skills, computer aided design and subject specific knowledge which is tested at the end of every project. Homework research and quizzes reinforce content from the lesson and are all linked to the GSCE specification.

Evaluation:

Achievement can be judged through review of test and examination scores, gap analysis, comparison of topic tests, quality assurance processes etc. End of project tests will be used for assessing knowledge including PEEL (Point Evidence Explain Link) style questions - analysis of this will then inform intervention in lessons in form of starters to recap knowledge. Show my homework quizzes are used to get students used to exam board specific. Moodle is used to track students' grades – this then is exported and used for all audits and data analysis. Feedback for task and how to be platinum is organised on Moodle. At the end of each year we discuss with students what they enjoyed and EBI. All resources are shared on Moodle. Everyone in the department can see each other's grades for comparison and reflection.