

Stone Hill School
Curriculum Plan 2019/20
DT Year 7

Intent:
All - Will understand safety rules in workshop and experience using a range of tools to produce outcome.
Most - Will produce own ideas and develop manual skills when using hand tools.
Some - Will produce good designs, work effectively with hand tools and machines and show some independence in workshop.

Term	Week/s	Topic/Theme <i>Steam</i>	Learning Outcomes Knowledge and Skills To know, to use, to apply...	Literacy Link Numeracy Link SMSC Link
Half Term 1	1-2	Health and Safety in the workshop	Understand and adhere to rules Produce a safety poster	Literacy: Writing statements SMSC: Health and safety
Health & Safety	3-4	Introduction to working with plastics	Mark out work accurately Use a Junior Hacksaw effectively Use a file correctly	Numeracy: Using a ruler
Using Plastics	5-8	Design and make activity: Key Fob project STEAM: Industrial practices	Smooth work using wet + dry paper Use the belt sander independently Use the pillar drill safely Polish work on buffing machine Introduction to Laser cutter	Literacy: Writing a brief Numeracy: Scale
Half Term 2	9-11	Bridges: Build a KNEX version of a famous bridge STEAM: Civil Engineering	Can follow pictorial instructions Can work as part of a small team Can build a structure using KNEX	SMSC: Working in a team
Structures	12 - 15	Structures: Design and build a tall paper tower / strong bridge	Can design a structure Can work as part of a small team Can build a structure using paper straws	SMSC: Working in a team
Half Term 3	16 - 18	Personal Monograms / Logos Packaging design Computer Aided Design CorelDraw STEAM: CAD	Can combine and develop ideas Can design 3D packaging Can design using CAD	Numeracy: 3D nets
Graphics				

Intended impact:
Year 7 is the introduction to Design and Technology. Students are taught about the importance of Health and Safety and how to work safely in the workshop. They begin to design products for themselves and work in small teams to solve problems. Computer Aided Design is introduced to underpin progress in subsequent years. Graphics is introduced to try and promote neat, attractive design work.

Note: Each Year 7 class will get three half terms in Technology and three half terms in Food Technology.