Holland Park School |

Year 8 Design and Technology

YEAR 8		**Maze Project** **Material:** Manufactured Board/Polymers
Research and Design	Research	• Explore existing products that promote hand eye coordination • Analyse products in detail using the criteria: **Aesthetics, Cost, Client, Environment, Size, Safety, Function, Materials/Manufacture** • Understanding how research informs design thinking
	Design	• Use a variety of approaches, for example biomimicry and user-centered design, to generate creative ideas and avoid stereotypical responses • Develop and communicate design ideas using annotated sketches • Combine ideas from a variety of sources
Technical Knowledge	Theory	• Demonstrate the universal health and safety rules of the workshop. • Understand the differences in between Thermo Polymers and Thermo-setting polymers • Understand the physical properties of Manufactured board. • Use learning from science to help design and make products that work • Use learning from mathematics to help design and make products that work .
Make	Skills	• Communicate plans clearly so that others can implement them • Match and select suitable materials considering their fitness for purpose • Select appropriately from specialist tools, techniques, processes, equipment and machinery, including computer-aided manufacture
	Make	• Make use of specialist equipment to mark out materials • Adapt methods of manufacture to changing circumstances • Follow procedures for safety and hygiene and understand the process of risk assessment

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Evaluate	Critical	• Evaluate their products against their original specification and identify ways of improving them • Actively involve others in the testing of their products • Produce short reports, making suggestions for improvements
Cross Curricular	Literacy	Opportunities for extended writing within Product Analysis, Evaluations, justifying decisions orally and through annotation. Writing a making diary. **No excuse vocabulary:** MDF, Polymer, Thermoforming, Thermosetting, Finish, Acrylic
	Numeracy	Measuring and Calculations
	Other subjects	**Science** – Polymerisation **SMSC - D**esigning a product to improve a child's development. Researching charities and choosing one to represent. **PSHE -** Assessment and evaluation. Safety
Careers	https://www.careerpilot.org.uk/job-sectors/subject/product-design#link-1	