

Golden Threads	Enrichment	Review and Evaluation
----------------	------------	-----------------------

	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Project 1	<p>Balance toy</p> <p>Material categories</p> <p>CAD/CAM</p> <p>Shaping and forming polymers</p> <p>How to cut, shape and join metals</p>	<p>The different categories of materials.</p> <p>How to use CAD / CAM to generate functioning part of a product.</p> <p>How to use a range of processes to cut, shape and join metal to make a functioning product.</p> <p>How to apply a finish to metal</p>	End of module design and make mark.	<p>The quality of the metal joining.</p> <p>How to convert a drawn concept into a functioning product.</p>		Building on learning throughout the Design & technology GCSE leading to a high-quality NEA outcome.
Project 2	<p>Flat pack chair</p> <p>What a client is</p> <p>CAD/CAM – laser cutter</p> <p>Prototyping</p>	<p>Be able to specify a client and what their wants and needs are and how to apply this to a design.</p> <p>How to produce a functioning prototype and then convert that to a final CAD design.</p> <p>How to independently use the laser cutter.</p>	End of module design and make mark.	Converting the prototype into a final CAD design.		Converting the prototype into a final CAD design.
Project 3	<p>Storage box</p>		End of module design and make mark.			Building on learning throughout the Design & technology GCSE leading to a high-quality NEA outcome.
Project 4	<p>Lego set</p>		End of module design and make mark.			Building on learning throughout the Design & technology GCSE leading to a high-quality NEA outcome.

	Topics & Substantive Knowledge	Disciplinary Knowledge	Assessment	Misconceptions	Key Vocabulary	Knowledge Tracking
Project 5	Mock NEA		End of module design and make mark.			Building on learning throughout the Design & technology GCSE leading to a high-quality NEA outcome.
Project 2	NEA  4.5.1 Section A Identify and investigate design possibilities	N/A	Verbal feedback will be conducted in all lessons when supporting the progress of practical work.  During the NEA in line with exam board and JCQ regulations, individual feedback is not permitted.	Ensure the chosen context is suitable for the NEA	N/A	Building on KS4 work and projects covered in Year 12