Subject: Design Technology
Faculty: Innovation
Year Group: 8

EXCELLING (-, =, +)			
	**All of the secure criteria plus:** Describe ideas and look at improvements you could make and how you make these.	**All of the secure criteria plus:** Be able to analyse material choices when thinking about sustainability, 6R's and social, moral and cultural implications.	**All of the secure criterion plus:** To be able to understand the advantages and disadvantages of paper patterns and stencils.
SECURE			
	Autumn Term	**Spring Term**	**Summer Term**
	Assessment strategy: Informal retrieval practice Teacher/Self/Peer assessment Pull along wooden toy project & Laser coasters project (CAD)	**Assessment strategy:** Informal retrieval practice Teacher/Self/Peer assessment Clock project	**Assessed strategy:** End of year standardised assessments Textiles project & Electronics project
Technical Knowledge	**Identify, explain** and **explore** technical equipment, materials, components and techniques. Recognise and **explain** that products/designs have to meet a range of different needs- In relation to target market.	**Everything from terms 1 and 2 plus:** **Understand** the characteristics of different ingredients, materials, components and processes. **Understand** a range of advanced/ specialist techniques.	**Everything from terms 1 and 2 plus:** Have a **broad knowledge** of different materials, components, ingredients and processes. **Independently explore** subject specific tasks (extra curricular/home projects).
Evaluating	**Compare** design ideas/final product against the design brief. Suggest **improvements** for design ideas/product with reasons. Use **technical terminology** from **examining, describing** and **evaluating.**	**Everything from terms 1 and 2 plus:** **Explain** why materials, ingredients or components have been used. **Identify** and **justify** any changes from the final design idea to the final product.	**Everything from terms 1 and 2 plus:** Suggest **alternative** materials, components or ingredients and **explain** choices. Carry out investigations/tests/ experiments to evaluate final products. Be able to analyse and evaluate to academic literature.
Practical Making	**Select** & use a range of functions on 2D design. Import and export in to laser software. Work **accurately** and within **tolerance.** Produce a **well designed, quality** product of the final product-Use gradients to fill and a range of simple shapes to create more complex shapes.	**Everything from terms 1 and 2 plus:** Work form your own **detailed plans** Use a range of tools and equipment with **precision** Carry out a range of **specialist techniques** (with support and understand the difference between different file types Produce a **high quality**, well considered final product	**Everything from terms 1 and 2 plus:** Carry out all tasks **accurately** and with **precision** Work **independently** and find **solutions** to design & practical problems Carry out a range of specialist techniques **independently**
Design Skills	Generate **detailed** design sketches/drawings/prototypes.Designs rendered. Have a basic understanding of software tools to be able to produce a simple vectorised design.	**Everything from terms 1 and 2 plus:** **Designs are rendered** to a high standard. **Explore** different materials, components or ingredients and use **technical information** to decide if they are suitable	**Everything from terms 1 and 2 plus:** Designs are neat, well rendered and well presented. Generate a **wide range** of **creative**, well **explained** and **justified** designs.

	Use research to **influence** design ideas. Write a specification **describing** essential and desirable criteria	for the final product. **Model ideas** by cooking, 3D models or using ICT design software	Write a detailed specification and **explain** choices made. **Explain** decisions regarding the choice of materials and manufacturing processes
DEVELOPING (-, =, +)			
	Not yet secure with all of the criteria set out for the term.		