CURRICULUM MAP Year 11 will complete their 'Non Examined Assessment' – A piece of course work that is worth 50% of their final qualification. Students will also gain knowledge of the 'Specialist Technical Principles' within Design and Technology. Students will also acquire revision and exam techniques in preparation of their final exam.

ST JAMES'
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HT1:	HT2:	Assessment Point: Summative or AFL	HT3:	HT4:	Assessment Point: Summative or AFL	HT5	HT6:	EOY Assessment Point
Overarching unit intent: • **Designing and making principles (NEA):** Investigation, primary and secondary data, Environmental, social and economic challenge, The work of others. • **Specialist technical principles:** Selection of materials or components, Forces and stresses. **Careers** The work of others- research and investigation into a range of designers with different design specialisms.	**Overarching unit intent:** • **Designing and making principles (NEA):** Design strategies, Communication of design ideas, Prototype development. • **Specialist technical principles:** Ecological and social footprint, Sources and origins of materials. **Careers** Research into the different careers within the environmental field.	***HT1 & HT2*** NEA End of unit assessments Practice Paper **Key disciplinary knowledge** Core technical principles Designing and making principles Specialist technical principles **Key Concepts** • **Core technical principles (Year 10):** New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • **Specialist technical principles:** Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of	**Overarching unit intent:** • **Designing and making principles (NEA):** Prototype development, Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes. • **Specialist technical principles:** Using and working with materials, Stock forms, types and sizes, Scales of production. **Careers** The work of others- research and investigation into a range of design companies.	**Overarching unit intent:** • **Designing and making principles (NEA):** Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes. • **Specialist technical principles:** Specialist techniques and processes, Surface treatments and finishes. **Careers** Video on quality control and product testing.	**HT3 and HT4 (with elements of HT1 and HT2)** NEA End of unit assessments Practice Paper **Key disciplinary knowledge** Core technical principles Designing and making principles Specialist technical principles **Key Concepts** • **Core technical principles (Year 10):** New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • **Specialist technical principles:** Selection of materials or components, Forces and stresses, Ecological and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and	**Overarching unit intent:** • **Core technical principles (Year 10):** New and emerging technologies, Energy generation and storage, Developments in new materials, Systems approach to designing, Mechanical devices, Materials and their working properties. • **Designing and making principles (NEA):** Investigation, primary and secondary data, Environmental, social and economic challenge, The work of others, Design strategies, Communication of design ideas, Prototype development, Selection of materials and components, Tolerances, Material management, Specialist tools and equipment, Specialist techniques and processes. • **Specialist technical principles:** Selection of materials or components, Forces and stresses, Ecological	**Overarching unit intent:**	**HT1 – HT6** **Key Disciplinary Knowledge** ***Key Concepts***

With God all things are possible Matthew 19:26

		materials, Using and working with materials, Stock forms, types and sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes, Materials (Relevant to NEA task being completed) **Designing and making principles are delivered through the NEA task** Students must demonstrate skills in applying the knowledge of the designing and making principles to the six assessment areas; • Researching and investigating (A) • Writing a design brief (B) • Generating ideas (C) • Developing ideas (D) • Realizing an idea (E) • Reflecting and evaluating (F)			sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes, Materials (Relevant to NEA task being completed) **Designing and making principles are delivered through the NEA task** Students must demonstrate skills in applying the knowledge of the designing and making principles to the six assessment areas; • Researching and investigating (A) • Writing a design brief (B) • Generating ideas (C) • Developing ideas (D) • Realizing an idea (E) • Reflecting and evaluating (F)	and social footprint, Sources and origins of materials, Using and working with materials, Stock forms, types and sizes, Scales of production, Specialist techniques and processes, Surface treatments and finishes. **<u>Careers</u>** Discussion on where the careers paths that their chosen further education might lead them to.		