Design Technology KS4 provision – GCSE AQA Design technology						
	Term 1 Aug-Oct	**Term 2 Nov-Dec**	**Term 3 Jan-Feb**	**Term 4 Mar-Apr**	**Term 5 Apr-May**	**Term 6 Jun-Jul**
Year 10: GCSE DT	Diagnostic & Introduction to course – **AQA 8552/1** **Core principles:** Emerging Technologies Industry & enterprise Sustainability & Environment – 6Rs People, Culture & Society **KLT – Knowledge check** Production Techniques & systems (Flexible/Lean & JIT) Informing design Decisions CAD/CAM **KLT Knowledge check** **Homework – Seneca Learning**	**Core principles:** Energy, materials, systems & devices Energy generation & Storage Fossil fuels Nuclear power Renewable energy **KLT – Knowledge check** Modern materials Smart Materials Composite & technical textiles **KLT – Knowledge check** Systems approach to design/Electronics Motions & levers Linkages Gears, pulleys & belts **KLT – Knowledge check** **Half GCSE paper** **Homework – Seneca Learning**	**Core principles:** Materials & their working properties Forces & Stresses Paper & board Natural & manufactured timbers Metals & Alloys Polymers (Thermoforming & Thermosetting/Bio) Textiles (Natural/Synthetic) Textiles (Woven, knitted, bonded) **KLT – Knowledge check** **Homework – Seneca Learning**	**Designing & making principles:** Investigation, primary & Secondary data Anthropometrics/Ergonomics Work of others – Designers/Companies Design Strategies Communicating Ideas **KLT – Knowledge check** Selection of materials & components Tolerances & Quality Control Templates/Patterns & Jigs **KLT – Knowledge check** Material management Specialist tools, equipment & processes. Enhancing materials, Surface treatments & finishes **Homework – Seneca Learning**	**Specialist Technical principles:** Health & safety – Safe working conditions Scales of production Forces & stresses **Project – Specific material focus** **Homework – Seneca Learning**	**NEA component: 8552/2** 50% Coursework element begins – AQA design challenges released **June 1st** Section B – Design Brief & Specification Section C – Design Ideas Full GCSE Paper **Homework – Seneca Learning**
Year 11: GCSE DT	**NEA component 50%:** Externally set by AQA Section B – brief & Spec Section C – Design Ideas **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section D - Development Section E – Making Externally set by AQA **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section D - Development Section E – Making **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section E - Making Section F – Evaluation & testing Revision for GCSE Exam **Homework – Seneca Learning**	Revision for GCSE Exam **Homework – Seneca Learning**	
	Section A Research – Investigations - User, Similar products, Environmental links					

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	Term 1 Aug-Oct	**Term 2 Nov-Dec**	**Term 3 Jan-Feb**	**Term 4 Mar-Apr**	**Term 5 Apr-May**	**Term 6 Jun-Jul**
Year 10: GCSE DT	Diagnostic & Introduction to course – **AQA 8552/1** **Core principles:** Emerging Technologies Industry & enterprise Sustainability & Environment – 6Rs Redesign & rethink People, Culture & Society Bisociation Economic impact **KLT – Knowledge check** Production Techniques & systems (Flexible/Lean & JIT) Informing design Decisions CAD/CAM **KLT Knowledge check** **Homework – Seneca Learning**	**Core principles:** Energy, materials, systems & devices Energy generation & Storage Energy & impact on design Fossil fuels Nuclear power Renewable energy **KLT – Knowledge check** Modern materials Smart Materials Composite & technical textiles **KLT – Knowledge check** Systems approach to design/Electronics Motions & levers Linkages Gears, pulleys & belts **Gears 2** **Knowledge check** **Half GCSE paper** **Homework – Seneca Learning**	**Core principles:** Materials & their physical & working properties Physical & working properties Forces & Stresses Paper & board Natural & manufactured timbers Metals & Alloys Polymers (Thermoforming & Thermosetting/Bio) Textiles (Natural/Synthetic) Textiles (Woven, knitted, bonded) **KLT – Knowledge check** **Homework – Seneca Learning**	**Designing & making principles:** Investigation, primary & Secondary data Anthropometrics/Ergonomics Work of others – Designers/Companies Design Strategies Communicating Ideas **KLT – Knowledge check** Selection of materials & components Tolerances & Quality Control Templates/Patterns & Jigs **KLT – Knowledge check** Material management Specialist tools, equipment & processes. Enhancing materials, Surface treatments & finishes **Homework – Seneca Learning**	**Specialist Technical principles:** Health & safety – Safe working conditions Scales of production Forces & stresses **Project – Specific material focus** **TEXTILES** **Homework – Seneca Learning**	**NEA component: 8552/2** 50% Coursework element begins – AQA design challenges released **June 1st** Section B – Design Brief, Users & Specification Section C – Design Ideas Innovation **Full GCSE Paper** **Homework – Seneca Learning**
Year 11: GCSE DT	**NEA component 50%:** Externally set by AQA Section B – brief & Spec Section C – Design Ideas **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section D – SCAMPER Development Section E – Making Planning manufacture Externally set by AQA **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section D – Development Iteration Section E – Making **KLT – Knowledge checks** **Homework – Seneca Learning**	**NEA component 50%:** Section E - Making Section F – Evaluation & testing Modifications & Improvements Revision for GCSE Exam **Homework – Seneca Learning**	Revision for GCSE Exam **Homework – Seneca Learning**	
	Section A Research – Investigations - User, Similar products, Environmental links					