Birchwood High School **KS4 Technology Curriculum Map 2025/26** *your dreams, your future, our challenge*

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
9	**Topic: Focus Skill Project** Focus project on the student specified area with design work/research to support Advancing practical skills Core Knowledge: New and Emerging Technologies	**Topic: Focus Skill Project** Focus project on the student specified area with design work/research to support Advancing practical skills Core Knowledge: Energy Generation	**Topic: Mini Rotations – Core Material Knowledge** Pupils complete 4 2 week rotations covering key material knowledge and working properties. Core Knowledge: Materials Categories	**Topic: Completing Mini Rotations & Core Knowledge Testing** End of module test Core Knowledge: Materials Categories Core Knowledge: Smart and Modern Materials	**Topic: Multi Material Focus project** A project which focusses on at least 2 materials from these areas: Timber/Polymers/Metals/Textile/Graphics Core Knowledge: Systems approach to design Core Knowledge: Materials Properties / Stock Forms	**Topic: Multi Material Focus project** A project which focusses on at least 2 materials from these areas: Timber/Polymers/Metals/Textile/Graphics Finish and Evaluate Core Knowledge: Design Movements/Designers Core Knowledge: Materials Properties / Stock Forms
10	**Topic: Core knowledge and Specific area theory** Test – Modern/Smart Materials Core Knowledge: Modern and Smart Materials Focus Material Area	**Topic: Introduction and start of Mock NEA (Non-Examined Assessment/Coursework)** - Research - Specification - Initial Designs Core Knowledge: Energy Storage Experience of NEA and its criteria	**Topic: Mock NEA** - Initial Designs - Development - Modelling Core Knowledge: Mechanical Devices Experience of NEA and its criteria	**Topic: Mock NEA** - Final designs - Manufacture of Prototype Core Knowledge: Material Properties Experience of NEA and its criteria / Advanced Practical skills & Construction Techniques.	**Topic: Mock NEA** - Completion of Prototype - Evaluation of final product Experience of NEA and its criteria / Advanced Practical skills & Construction Techniques. Preparation for Year 10 Mock Exam	**Topic: Final NEA (50% GCSE)** Release of titles from Exam Board Pupils start initial research: - Task Analysis - Primary Research - Secondary Research - Specification
11	**Topic: Final NEA (50% GCSE)** Pupils continue NEA from end of Year 10. - Initial Designs - Development - Modelling NEA - Coursework Core Knowledge: Materials and their working properties(Reteach)	**Topic: Final NEA (50% GCSE)** Pupils continue NEA as main focus - Final Design - Plan of Manufacture Mock Exam – Full 2 hours Mock Exam Preparation Core Knowledge: Mechanical Devices (Reteach)	**Topic: Final NEA (50% GCSE)** Pupils continue NEA as main focus - Manufacture of Final Prototype - Manufacturing Diary Core Knowledge: Materials and their working properties Core Knowledge: Specialist Technical Principles (Reteach)	**Topic: Final NEA (50% GCSE)** Pupils finish NEA as main focus - Manufacture of Final Prototype Complete - Testing and Evaluation - HAND IN Core Knowledge: Specialist Technical Principles (Reteach)	**Topic: Preparation for final exam** Revision and Review of prior learning Practice Papers All Core Knowledge Areas Exam Technique	**Topic: Final NEA (50% GCSE)** Pupils continue NEA from end of Year 10. - Initial Designs - Development - Modelling NEA - Coursework Core Knowledge: Materials and their working properties(Reteach)