Year 10 - DT Curriculum Map 2020/21

St John
Bosco
College

Year 10	Content and Knowledge	Skills/ Covered	Key Vocabulary	What to research at home/ recommended websites and reading list
Autumn Term 1	Mini projects to build skills ready for non-exam assessment (NEA) an build CORE exam knowledge - **Materials Experiment Project**	Materials, properties of materials, timbers, alloys, polymers, forces and stresses, Quality control, adhesives	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'
Autumn Term 2	Mini projects to build skills ready for non-exam assessment (NEA) an build CORE exam knowledge - **Mini NEA**	CAD, designing, design contexts, target market, user client, specification, modelling, evaluation	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'
Spring Term 1	Mini projects to build skills ready for non-exam assessment (NEA) an build CORE exam knowledge - **Exam Revision through practical skills**	Emerging technologies, materials, materials & systems, papers and boards, timbers, alloys and polymers, textiles, electronic and Mechanical systems, designing and making	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'
Spring Term 2	Mini projects to build skills ready for non-exam assessment (NEA) an build SPECIALIST exam knowledge - **Up-skills practicals**	Manufacture, materials, design, hand tools, machinery, modelling, styrofoam, paper and board, CAD/CAM, Laser cutting	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'
Summer Term 1	Mini projects to build skills ready for non-exam assessment (NEA) an build SPECIALIST exam knowledge - **CAD/CAM**	CAD process, rapid prototyping, 3D Printing, developing prototypes, design strategies, processes, user needs	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'
Summer Term 2	Mini projects to build skills ready for non-exam assessment (NEA) an build SPECIALIST exam knowledge - **GCSE Design Contexts Exploration**	Exploring design briefs, user client needs, specification, mind maps, design contexts, designing	Please refer to the DT Technical Vocabulary Dictionary	Please refer to the 'DT-KS4-Read-and-watch-list'

KS4 Keywords

Automation	Mechanical device
Client	Nesting
Commercial process	Physical properties
Commercial product	Planned obsolescence
Conceptual stages (of design)	Primary source
Continuous improvement	Primary source (of materials)
Co-operative	Product
Crowd funding	Prototype
Ecological	Schematic diagram
Ethics	Social footprint
Fabricate	Social responsibility
Finite	Stock form
Functionality	Technology push
Fusibility	Tolerance
Iterative design	User
Lean manufacturing	User centered design
Life cycle assessment	Working properties
Market pull	