INDUSTRIAL TECHNOLOGY DEPARTMENT COURSE OUTLINE SEPTEMBER 2025-JUNE 2026 BUILDING AND FURNITURE TECHNOLOGY (GRADE 10)

BUILDING TECHNOLOGY GRADE 10 (TERM 1- CHRISTMAS)

PROPOSED THEME:

Building and Furniture Technology

No.	ТОРІС	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
1.	Workshop, Personal & Fire Safety	Christmas – Core: Safety	Define workshop, fire, machine, and tool safety Identify personal protective gear Understand safe machine/tool operation	Safety rule review Case study discussions Safety gear display	Assignment: List 12 general workshop safety rules Quiz Group brainstorm for ELL learners	Sept. 8 – Sept. 26, 2025
2.	Hand Tools	Christmas – Core Skills	Name, use, maintain & inspect saws, planes, chisels, hammers, squares, etc.	Tool identification game Demonstrations on tool care and safety	Observation checklist Practical demo	Sept. 29 – Oct. 17, 2025
3.	Organizational Structure	Christmas – Core: Industry Operations	Define organizational structure Explore types and functions	Analyze real-world org charts Class discussion	Assignment: Download & submit two organizational charts	Oct. 20 – Nov. 7, 2025

			of structures Compare construction and manufacturing industries	Diagram comparison	Chart labeling exercise	
4.	Timber Identification	Christmas – Timber Technology	Identify cross-section of a tree Differentiate hardwood vs softwood Explain moisture content and preservation methods	Wood sample inspection Tree cross-section sketch Moisture test demo	Quiz and worksheet Group discussion for support learners	Nov. 10 – Nov. 28, 2025
5.	Accident Report	Christmas – Core: Workplace Protocols	Define accident report Identify its purpose and components Use report format to describe incidents	Role-play scenarios Review sample reports Writing practice	Assignment: Write a workshop-related accident report Peer edit for clarity & structure	Dec. 1 – Dec. 3, 2025
6.	Measuring & Marking	Christmas – Core Skills	Use ruler, try square, tape, marking gauge, calipers and dividers accurately	Marking out exercise on timber Measuring challenge activity	Short worksheet Practical task with peer review	Dec. 4 – Dec. 9, 2025

BUILDING TECHNOLOGY GRADE 10 (TERM 2 -EASTER)

PROPOSED THEME:

Building and Furniture Technology

No.	ТОРІС	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
7.	Timber Conversion & Seasoning	Easter – Timber Technology	Explain plain/quarter sawing Describe natural & artificial seasoning methods	Lumber conversion chart Seasoning process discussion	Quiz Sketch or flowchart of seasoning process	Jan. 12 – Jan. 30, 2026
8.	Wood Defects & Preservation	Easter – Timber Technology Continued	- Identify common wood defects - Explain methods of wood preservation	Defect using with samples/images Preservation method role play	Worksheet Matching task Small group activity	Feb. 2 – Feb. 20, 2026
9.	Introduction to Drawing	Easter – Drawing & Design	Create basic sketches Identify line types Use orthographic drawing	Sketching exercises Orthographic drill	Drawing task Peer review and correction	Feb. 23 – Mar. 13, 2026
10.	Building Site Selection	Easter – Site Preparation	Define and identify types of building sites List factors to consider when selecting a site	Case studies Map reading Cost factor comparison	Take-home worksheet on site selection Visual charts for soil types	Mar. 16 – Apr. 3, 2026

			Consider cost and soil types			
11.	Site Work	Easter – Site Preparation Continued	Identify construction documents Understand contractor roles Explore temporary site facilities (site office, sanitation, utilities)	Diagram labeling Group presentations Real-life project examples	Class quiz Site facility layout sketch	Mar. 30 – Apr. 4, 2026
12.	Laying Out a Building	Easter– Building Setup	Set up datum post and base line Establish profile boards Lay out foundation and block wall Check squareness (2 methods)	Outdoor practical layout Demonstration and peer practice	Observation checklist Practical task evaluation	Apr. 6 – Apr. 7, 2026

BUILDING TECHNOLOGY GRADE 10 (TERM 3 -SUMMER)

PROPOSED THEME:

Building and Furniture Technology

No.	ТОРІС	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
13.	Basic Furniture Construction	Summer – Practical & Project Development (Classwork & SBA Furniture Project)	Understand and apply cutting lists, select appropriate tools, layout furniture components, and perform basic joinery techniques Identify and create basic joints (butt, lap, mortise & tenon, dowel Draw selected project furniture project, Select joints	Practical cutting list preparation, tool handling exercises, layout marking, hands- on joinery practice Joint model making Joinery poster Autocad Sketch or drawing	Practical project assessment, tool selection quiz, peer and teacher observation Practical assessment Short written task	Apr. 21 – May 16, 2026
14.	Finishes	Summer – Practical & Project Development	Learn sanding techniques, apply sealers, paint, and varnish furniture pieces	Demonstrations on sanding, sealing, painting, and varnishing; hands-on finishing practice	Practical finishing project, presentation of finished pieces, reflective journal	May 19 – June 6, 2026
15.	SBA Project Tracking Process	Easter -SBA Progress	Complete Organization hart - Construction - Manufacturing	Assignment: Download & submit two organizational charts	Checklist Oral Questioning	June 9 – June 16, 2026

	Accident Report Layout of a building Start SBA Furniture Project	Write a workshop- related accident report Draw selected project(furniture project)	Picture evidence of Practical Practical task evaluation Rubric (Teacher)	
		Outdoor practical layout (add pictures)		