

INDUSTRIAL TECHNOLOGY DEPARTMENT COURSE OUTLINE
SEPTEMBER 2025-JUNE 2026
TECHNICAL DRAWING (GRADE 10)

TECHNICAL DRAWING GRADE 10 (TERM 1 -CHRISTMAS)

PROPOSED THEME:

No.	TOPIC	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
1.	Drawing Instruments & Line Types	Christmas – Technical Drawing Basics	Use and care of T-square, compass, set squares; Identify and apply line types (center, hidden, dimension, etc.)s	Teacher demo, sketching, tracing	Line practice sheet	Sept. 8 – Sept. 19, 2025
2.	AutoCAD Setup	Christmas – Technical Drawing Basics	Register AutoDesk, install software, start and save a drawing	Hands-on setup, step guide	Checklist, observation	Sept. 22 – Oct. 3, 2025
3.	AutoCAD Interface & Tools	Christmas – Technical Drawing Basics	Use icons, set limits, units, and layers	Tutorials, guided demo Demonstration (Teacher-led)	CAD test	Oct. 6 – Oct. 17, 2025
4.	Drawing 2D Shape	Christmas – 2D Practice	Draw triangles, quadrilaterals, polygons, tangents	Hands-on tasks, digital & manual	Practical task submission	Oct. 20 – Nov. 7, 2025
5.	Orthographic Projection (Intro)	Christmas – Projection Basics	Identify and draw front, top, side views	Model-based practice	Portfolio update	Nov. 10 – Nov. 21, 2025

6.	Drawing Conventions	Christmas – Drawing Standards	Apply lettering, title blocks, borders, scale types	Sketching, notes	Written test Matching activity	Nov. 24 – Dec. 4, 2025
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TECHNICAL DRAWING GRADE 10 (TERM 2 -EASTER)

PROPOSED THEME:

No.	TOPIC	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
8.	Orthographic Projection (Advanced)	Easter – Multi-View Drawing	Produce full 3-view drawings with correct scaling	CAD & manual drawing	Submission & peer review	Jan. 12 – Jan. 30, 2026
9.	Isometric Drawing	Easter – 3D Drawing	Construct isometric figures with dimensions	Isometric grid, CAD tasks	observation, Weekly drawing task2	Feb. 2 – Feb. 20, 2026
10.	Isometric Circles & Leaders	Easter – 3D Drawing	Draw isometric ellipses, add leaders & notes	Templates, CAD ellipse tool	Quick quiz Discussion	Feb. 23 – Mar. 6, 2026
11.	Scales & Dimensioning	Easter – Drawing Conventions	Apply correct scale types in 2D and 3D drawings	Sample scale drawings	Scale test	Mar. 9 – Mar. 20, 2026
12.	Drawing Conventions	Easter – Drawing Standards	Apply lettering, title blocks, borders, scale types	Sketching, notes	Written test Matching activity	Mar. 23 – Apr. 3, 2026

13.	Mixed Practice	Easter – Application	Combine orthographic & isometric in practice tasks	Peer support, review	Portfolio update	Apr. 6 – Apr. 7, 2026
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TECHNICAL DRAWING GRADE 10 (TERM 3 -SUMMER)

PROPOSED THEME:

No.	TOPIC	TERM & THEME	OBJECTIVES & CONTENT SUMMARY	ACTIVITIES & METHODOLOGIES	ASSESSMENT & DIFFERENTIATION	TIMEFRAME (TENTATIVE)
14.	Sectional Views	Summer – Advanced Projection	Draw full and half sections of simple objects	Cut models, use of thick/thin lines	Drawing assignment	Apr. 21 – May 2, 2026
15.	Development of Surfaces	Summer – Applied Geometry	Develop nets of prisms, cones, cylinders	Paper folding, drawing tasks	Submission & feedback	May 5 – May 16, 2026
16.	Draft / Introduction to SBA	Summer – SBA Start	Explain SBA requirements, choose simple building plan	Sample SBA review	SBA draft checklist	May 19 – May 30, 2026
17.	Building Drawing Basics	Summer – Drafting for SBA	Draw floor plan, use approved symbols (door, window, fixtures)	Sketching + CAD, rubric	Practice drawing	June 2 – June 9, 2026
18.	Drawing Conventions	Summer – SBA Prep	Add dimensions, use standard	CAD and manual tasks	Draft submission	June 10 – June 16, 2026

	Dimensioning & Title Blocks		title blocks			
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