

	TECH 1	MARLBORO CENTRAL SCHOOL DISTRICT-CURRICULUM MAP	Grade 9	
Title or Topics (Unit organizing idea)	Concepts (understandings)	Skills (What students actually do)	Major Assessments (Tests, projects, etc.)	Time Frame (Number of weeks)
Intro to Classic Hand Drawing and Design	NYSED Standard 1 - Engineering Design NYSED Standard 2 - Tech Tools and Resources	Learn and demonstrate proper design etiquette Practice precise drawing techniques Use various drawing tools (compass, protractor, T-Square) Design Title Blocks Design basic drawings	SLO 1 Assessment SLO 2 Assessment AutoCAD Terminology Quizzes	2-3 Weeks
Intro To AutoCAD	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Use AutoCAD and create accounts to access free program access Study AutoCAD and its uses in the production and manufacturing world Learn the various Autodesk programs and their potential uses Begin creating basic files using AutoCAD 2013	AutoCAD Command and Tools Test AutoCAD Terminology Quizzes	4 Weeks
AutoCAD Basics	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Learn basic commands Learn basic toolbar features Practice drawing techniques using line and geometry commands Replicate drawings provided with step by step instructions using the internet Begin creating unique designs with precise measurement and dimensions	AutoCAD Replicate Design Tests AutoCAD Terminology Quizzes	6-8 Weeks

Title or Topics (Unit organizing idea)	Concepts (understandings)	Skills (What students actually do)	Major Assessments (Tests, projects, etc.)	Time Frame (Number of weeks)
AutoCAD 3D	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Learn Basic 3D Concepts Use 3D Coordinates and Viewpoints Create multiple basic 3D designs (sofa, chair, etc) Create Surfaced Models Learn Solid Modeling Concepts Learn Chamfer, Fillet, Slicing, and Cylinder commands Use various geometry commands Learn Plotting and the final production of 3D designs	3D Model Design Tests AutoCAD Terminology Quizzes	6-8 Weeks
Model Building Construction	NYSED Standard 2 - Tech Tools and Resources	Create a Building using blueprints Use various tools to cut, measure, and assemble Create Wall Frames Construct and Assemble final building	Final Building Construction Assessment	6-8 Weeks

<p>Intro To TECH 2 (Inventor and Revit)</p>	<p>NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems</p>	<p>Learn basic AutoCAD Inventor controls and features -Pull Down Menus -Command Bar terminology -Mouse controls -Creating Files</p> <p>REVIT Basic Features - Commands and navigation - Learning wall, component, and design features - Designing a small building</p>	<p>Basic TECH 2 Design Tests AutoCAD Terminology Quizzes</p>	<p>4 Weeks</p>
---	--	--	---	----------------