	TECH 2	MARLBORO CENTRAL SCHOOL DISTRICT-CURRICULUM MAP	Grade 10	
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 AutoCAD Inventor	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Learn basic AutoCAD controls and features -Pull Down Menus -Command Bar terminology -Mouse controls -Creating Files Create Surface and Solid Models -Create 2D Designs -Create 3D Designs	AutoCAD Terminology Quiz Design Project 1-3	2 Weeks
Parametric Modeling Constructive Solid Geometry Model History Tree	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Practice using geometric constraints Applying Dimensions to drawings Using the extruding feature to create 3D Models Practice using various geometry commands Studying Coordinate Systems Adding multiple drawings to create a single design	AutoCAD Terminology Quiz\ Design Project 4-6	3-5 Weeks
Parametric Constraints Geometric Construction Part Drawings	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Apply and understand dimensional constraints Create a solid model from scratch Practice using the commands Cut and Drill Manipulating Drawing Sheets for production Adjusting view scales and positions in final design presentations	AutoCAD Terminology Quiz Design Project 7-9	3-5 Weeks

Auxiliary Views Symmetrical Features Assembly Modeling	NYSED Standard 1 - Engineering Design NYSED Standard 3 - Computer Technology NYSED Standard 4 - Technological Systems	Creating Angles Work Planes Adding Auxiliary and Isometric Views Using Center Cuts and Construction lines	AutoCAD Terminology Quiz Design Project 10-12	3- 5 Weeks
Advanced 3D Construction	Design Design NYSED Standard 3 Bu - Computer Cr	earn and Practice the use of Fillet and Round commands refining Work Planes and Profile Sketches realing a nozzle reating a Grill Pattern reating a Sweep Feature	AutoCAD Terminology Quiz Final Design Project	3-5 Weeks
Model House Construction	NYSED Standard 2 Cr - Tech Tools and Resources	reate 2 Model Houses Using Blueprints for accurate construction Creating a model garage Creating a model A-Frame building Designing and building wall frames Designing and building roof trusses	Garage Assessment Final House Assessment Final	8 – 12 Weeks

Intro to AutoCAD				3- 5 Weeks
REVIT	NYSED Standard 3	REVIT Basic Features	AutoCAD	
	- Computer	- Commands and navigation	Terminology Quiz	
	Technology	- Learning wall, component, and design features		
		- Designing a small building		
	NYSED Standard 4	- Designing a large complex structure		
	- Technological			
	Systems			
	NYSED Standard 1			
	- Engineering			
	Design			