

***MONROE TOWNSHIP PUBLIC SCHOOLS  
WILLIAMSTOWN, NEW JERSEY***

***Williamstown High School***



***Cabinet Making***

***September 2013***

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**Monroe Township Public Schools**  
Williamstown, New Jersey

**Philosophy of Education**

The administration, faculty, and staff of Monroe Township Public Schools, in cooperation with parent and the community, and with active participation of the students, are committed to viewing each other as individuals, respecting each person's uniqueness, and setting high expectations for all students. The school system will assist each student to become a contributing member of our society by providing a learning environment that is responsive to the needs of the individual student, community, and changing society by providing a learning environment that nurtures values and morals. This environment will be conducive to acquisition of knowledge, as well as to the development of problem solving, critical thinking, and organizational skills. We will provide a learning environment that is responsive to the needs of the individual student, community, and changing society. We will aid our students in developing responsible behavior, a positive attitude toward themselves and others, the necessary life skills to become productive citizens and lifetime learners. We accept the challenge and responsibility of accomplishing these goals.

Revised: August, 1996

**Williamstown High School**  
Williamstown, New Jersey

**Mission Statement**

**Williamstown High School provides an atmosphere where our students become responsible, productive citizens, and life-long learners.**

**BELIEFS**

Students are responsible for their education and are accountable for their actions and decisions.

Students and staff respect all people regardless of race, color, creed, religion, gender, and sexual orientation.

Students, regardless of learning styles and abilities, need to be challenged and inspired in order to achieve their full potential.

Students and staff are provided a safe and supportive environment in which they can pursue their educational goals.

High expectations are communicated to the students from all members of the school's community.

Effective education is a student, staff, and community partnership, which prepares students for the future in a technologically changing society.

High school personnel serve as catalysts for academic and personal success for all students.

Revised: 2004

**Williamstown High School**  
Williamstown, New Jersey

**Industrial Technology Education Department**

**Philosophy**

The Industrial Technology is an area of study that helps students become technologically literate. Through classroom lessons and lab activities, students learn about the technical, social and cultural impacts of technology in our world. Students acquire a new vocabulary that helps them to better express their knowledge of technology. Likewise, their hands-on experiences in technology education teach them how to use tools and equipment while applying safety principles to accomplish technical tasks. Students will use critical thinking, decision making and problem solving skills to create drawings and products. Students will be exposed to various careers and develop workplace readiness skills. The goal of the Industrial Technology Education Department is to also develop self-management skills and self-pride in each student. Students should be convinced of what they will need to know for the next century and be prepared to enter the work force directly with marketable skills or to further their education when they graduate.

# Williamstown High School

## Purpose Statement

Course: Cabinetmaking

Teacher: Staff

Credits: 5

Weighted for Class Rank: No

Pursuant to the High School Graduation Standards Act (NJSA 18A, et. Seq) successful completion of this course will require:

- A. Regular attendance as mandated by Board Policy
- B. Mastery of the below content/objectives and achievement of the proficiencies required.

### Purpose:

Cabinetmaking is a course designed for the advanced woodworking students. The course involves construction of complex projects dealing with precision woodworking. The student will be expected to design, construct, and finish projects of professional quality.

### Proficiency

1. Students will demonstrate safe work habits
2. Students will know current cabinet making techniques
3. Students will be able to read and draw blueprints
4. Demonstrate the ability to create a bill of materials, cut list and efficiently use materials
5. Demonstrate the ability to use proper equipment safely to cut materials
6. Students will demonstrate the ability to assemble a project
7. Students will be able to construct a draw
8. Demonstrate the ability to construct a cabinet door
9. Demonstrate the ability to construct a table and cabinet top
10. Demonstrate the ability to prepare and apply a finish

### Career/Objectives:

Explore career opportunities in the field of cabinet making, carpentry, stage set construction and boat building.

### Measurement of Student Achievement:

Achievement in Cabinet Making is measured by test, manual performance, and project grade.

## SCOPE AND SEQUENCE

### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
<b>Fire Safety</b>			
<b>Prevention **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Storage of Materials **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Flammable Materials **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Location of Fire Extinguishers **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Fires **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Fire Alarms **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>If Your Clothing Catches on Fire **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>First Aid</b>			
<b>Who to Notify **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Injuries **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of First Aid to Administer **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Blood Born Pathogens **</b>	<b>I</b>	<b>R</b>	<b>R</b>

**I = INTRODUCED**

**R = REINFORCED**

## SCOPE AND SEQUENCE

### Clamping tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
C- Clamps **	I	R	R
Quick Grip **	I	R	R
Hand Screw **	I	R	R
Vice Grip Clamps **	I	R	R
Bar Clamps **	I	R	R
Strap Clamps **	I	R	R
Spring Type Clamps **	I	R	R
Corner Clamps ** [miter]	I	R	R
Edge Clamps **	I	R	R

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## SCOPE AND SEQUENCE

### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Tool & Equipment Safety **	I	R	R
Receive Proper Instruction **	I	R	R
Proper Intent & Use **	I	R	R
Handling & Care **	I	R	R
Carrying & Storage **	I	R	R
Electrical Cords **	I	R	R
Electrical Plugs **	I	R	R
Unplug for Adjustments **	I	R	R
Water & Electricity **	I	R	R

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## SCOPE AND SEQUENCE

### Portable Power Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Carbide Masonry Bits**	I	R	R
Combination Drill Bits**	I	R	R
Bead Point Wood Bit**	I	R	R
Hole Saws**	I	R	R
Screw Shooters**			
Safe Use of**	I	R	R
Types of**	I	R	R
Uses**	I	R	R
Fasteners**	I	R	R
Palm Sanders**			
Safe Use of**	I	R	R
Types of**	I	R	R
Choosing Abrasive**	I	R	R
Changing Abrasive**	I	R	R

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## SCOPE AND SEQUENCE

### Portable Power Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Belt Sander**	I	R	R
Safe Use of**	I	R	R
Types & Sizes**	I	R	R
Choosing Abrasive**	I	R	R
Changing Abrasive**	I	R	R

## SCOPE AND SEQUENCE

### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
<b>Introduction to Safety**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Accident Prevention**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Safety Attitudes**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>General Safety Rule</b>			
<b>Emergency Switches**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Machine Usage**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Concentration**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Clean Work Area**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Eye Safety**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Clothing**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Hearing Protection**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Respiratory Protection**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Lifting**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Obey Rules**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Courteous &amp; Respect**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Accident Reporting**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Right To Know [RTK]**</b>	<b>I</b>	<b>R</b>	<b>R</b>

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## SCOPE AND SEQUENCE

### Safe Use of Hand Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Hammers **	I	R	R
Leather/Wood/ Rubber Mallet **	I	R	R
Pliers **	I	R	R
Wrenches **	I	R	R
Wood Chisels **	I	R	R
Rip Saw **	I	R	R
Crosscut Saw **	I	R	R
Combination Saw **	I	R	R
Back Saw **	I	R	R
Dove Tail Saw **	I	R	R
Coping Saw **	I	R	R
Hack Saw **	I	R	R
Nail Set **	I	R	R
Hand Planes **	I	R	R
Cabinet Scrapers **	I	R	R
Files **	I	R	R
Serrated Forming Tools **	I	R	R

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## SCOPE AND SEQUENCE

### Portable Power Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Portable Circular Saw **	I	R	R
Safe Use of **	I	R	R
Types of **	I	R	R
Types of Cuts **	I	R	R
Types of Blades **	I	R	R
Changing the Blade **	I	R	R
Saber Saw **	I	R	R
Safe Use of **	I	R	R
Types of **	I	R	R
Types of Cuts **	I	R	R
Types of Blades **	I	R	R
Changing Blades **	I	R	R
Router **	I	R	R
Safe Use of **	I	R	R
Types of **	I	R	R
Sizes of **	I	R	R

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## SCOPE AND SEQUENCE

### Portable Power Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Types of Cuts **	I	R	R
Types and Nomenclature of Cutters **	I	R	R
Set-Up and Use **	I	R	R
Biscuit Jointer **		I	R
Safe Use of **		I	R
Types of **		I	R
Types of Joints **		I	R
Biscuit Sizes **		I	R
Drills [12v & 110v]**	I	R	R
Safe Use of **	I	R	R
Types of Chucks **	I	R	R
Boring Operations **	I	R	R
Twist Bits **	I	R	R
Spade Bits **	I	R	R
Speed Bore Bits **	I	R	R
Foerstner Bit **	I	R	R

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## SCOPE AND SEQUENCE

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Parts of a Tree **	I	R	R
Cell Structure **	I	R	R
Hardwoods & Softwoods **	I	R	R
Growth Rings **	I	R	R
Characteristics **	I	R	R
Properties **	I	R	R
Cutting Methods **	I	R	R
Decorative Features **	I	R	R
Seasoning **	I	R	R
Lumber Shrinkage **	I	R	R
Lumber Defects **	I	R	R
Species **	I	R	R
Wood Grading **	I	R	R
Ordering Lumber **	I	R	R

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## SCOPE AND SEQUENCE

### Career Planning

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Develop work place readiness**	I	R	R
Employability/work habits**	I	R	R
Personal skills & attitudes**	I	R	R
Identify personal interest**	I	I	R
Develop career plans**	I	I	R
Identify transferable skills**	I	I	R
Selection of appropriate course**	I	I	R
Describe occupational skills**	I	I	R
Demonstrate occupational skills**	I	R	R
Identify job openings**	I	R	R
Prepare a resume**	I	R	R
Develop interview skills**	I	R	R

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## SCOPE AND SEQUENCE

### Construction Materials

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Types of Wood**	I	R	R
Choosing Wood For Project**	I	R	R
Plywood**	I	R	R
Laminates**	I	R	R
Non-Wood Products**	I	R	R
Adhesives**			
Kinds of	I	R	R
Selecting**	I	R	R
Gluing Procedures**	I	R	R
Clamping Devices**	I	R	R
Gluing Problems**	I	R	R
Fasteners** (nails)			
Sizing System**	I	R	R
Types of**	I	R	R
Use of**	I	R	R
Fasteners** (screws)			
Sizing System**	I	R	R
Types of	I	R	R

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## SCOPE AND SEQUENCE

### Construction Materials

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Use of **	I	R	R
Fastener ** (other)			
Nuts & Bolts	I	R	R
Specialty**	I	R	R

## SCOPE AND SEQUENCE

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
Measure in 1/8 & 1/16 Scale **	I	R	R
Bench Rule Use **	I	R	R
Tape Measure Use **	I	R	R
Using Sliding T- Bevel **	I	R	R
Using the Tri-Square **	I	R	R
Using the Combination Square **	I	R	R
Using the Carpenter Square **	I	R	R
Using a Marking Gauge **	I	R	R
Using Dividers **	I	R	R
Using Inside/Outside Calipers	I	R	R
Using Levels	I	R	R

## SCOPE AND SEQUENCE

### Machine Set-Up & Maintenance

**DEVELOPMENT SKILLS**

**\*=CORE PROFICIENCY**

**\*\*=CONTENT STANDARD**

	C.T. 1	C.T. 2	C.T. 3
Using machine set-ups**	I	R	R
Making machine set-ups**	I	R	R
Using fixtures**	I	R	R
Making fixtures**	I	R	R
Using Templates**	I	R	R
Making Templates**	I	R	R
Maintenance			
Cleaning**	I	R	R
Lubrication**	I	R	R
Adjustments**	I	R	R

## SCOPE AND SEQUENCE

### Plans & Prints

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
<b>Blueprint Interpretation 6 Views of Orthographic</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Projection **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Pictorials **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Perspective **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Isometric Drawing **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sketching **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Working Drawing **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Using Templates **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Using Patterns **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Blueprint Interpretation 6 Views of Orthographic</b>	<b>I</b>	<b>R</b>	<b>R</b>

## SCOPE AND SEQUENCE

### Stationary Power Tools

**DEVELOPMENT SKILLS**

**\*=CORE PROFICIENCY**

**\*\*=CONTENT STANDARD**

	C.T. 1	C.T. 2	C.T. 3
<b>Radial Arm Saw **</b>			
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Cuts **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Choosing Proper Blade **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Band Saw **</b>			
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Cuts **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Cuts **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Choosing Proper Blade **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Disk Sander</b>			
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Choosing Proper Abrasive **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Changing the Disk **</b>			

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## SCOPE AND SEQUENCE

### Stationary Power Tools

#### DEVELOPMENT SKILLS

\*=CORE PROFICIENCY

\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
<b>Belt Sander **</b>			
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Choosing Proper Abrasive **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Oscillating Drum Sander **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of **</b>			
<b>Choosing Proper Abrasive **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Changing Abrasive Sleeve **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Changing Drum **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Wood Lath **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Safe Use of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of **</b>			
<b>Sizes of **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Turnings **</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Lath Tool Use **</b>	<b>I</b>	<b>R</b>	<b>R</b>

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## SCOPE AND SEQUENCE

### Stationary Power Tools

#### DEVELOPMENT SKILLS

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\*\*=CONTENT STANDARD

	C.T. 1	C.T. 2	C.T. 3
<b>Miter Box Saw</b>			
<b>Safe Use of**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Sizes of**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Types of Cuts**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Choosing Proper Blade*</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Changing Blade**</b>	<b>I</b>	<b>R</b>	<b>R</b>
<b>Jointer</b>			
<b>Safe Use of**</b>		<b>I</b>	<b>R</b>
<b>Sizes of**</b>		<b>I</b>	<b>R</b>
<b>Types of Cuts**</b>		<b>I</b>	<b>R</b>
<b>Table Saw</b>			
<b>Safe Use **</b>		<b>I</b>	
<b>Sizes of**</b>		<b>I</b>	<b>R</b>
<b>Types of Cuts**</b>		<b>I</b>	<b>R</b>
<b>Choosing Proper Blade**</b>		<b>I</b>	<b>R</b>

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## SCOPE AND SEQUENCE

### Stationary Power Tools

#### DEVELOPMENT SKILLS

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	C.T. 1	C.T. 2	C.T. 3
Shaper			
Safe Use of **		I	R
Types of Cutters **		I	R
Changing Cutters **		I	R
Proper Use of Offset Fence**		I	R

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## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #1 Student will demonstrate knowledge of: Teaching Safe Operation of Stationary and Portable Woodworking Tools.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <b><u>The students will be able to safely operate the following woodworking equipment:</u></b>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning 2. Teacher Directed 3. Study Groups 4. Technology 5. Demonstration 6. Cooperative Groups 7. Literature Circles 8. Participation & Discussion 9. Reading 10. Application 11. Lab (report) 12. Homework 13. Field Trip 14. Projects 15. Other (explain)	1. Multiple Choice 2. Essay 3. Fill-In-Blanks 4. Academic Prompts 5. Writing Samples 6. Lab Report 7. Problem Solving 8. Oral Presentation 9. Self-Assessment 10. Class Survey 11. Rubrics 12. Reflective Discussion 13. Performance Tasks 14. Teacher Observation 15. Portfolio 16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.M.(2).5 – 7	Table Saw	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Radial Arm Saw	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Shaper	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Band Saw	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Wood Lathe	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Drill Press	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Jointer	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Panel Saw	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Disk Sander	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Drum Sander	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Stationary Belt Sander	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Drill-Battery and Electric (3/8 & 1/2)	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Router and Router Table	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Portable Belt Sander	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Plate Jointer	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Random Orbital Sander	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).5 – 7	Miter Box Saw	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #2 Student will demonstrate knowledge of: Teaching students the current type of cabinet making construction.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will explain and demonstrate how to:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning 2. Teacher Directed 3. Study Groups 4. Technology 5. Demonstration 6. Cooperative Groups 7. Literature Circles 8. Participation & Discussion 9. Reading 10. Application 11. Lab (report) 12. Homework 13. Field Trip 14. Projects 15. Other (explain)	1. Multiple Choice 2. Essay 3. Fill-In-Blanks 4. Academic Prompts 5. Writing Samples 6. Lab Report 7. Problem Solving 8. Oral Presentation 9. Self-Assessment 10. Class Survey 11. Rubrics 12. Reflective Discussion 13. Performance Tasks 14. Teacher Observation 15. Portfolio 16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.M.(2).9	Construct wood joint using dowels	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct wood joint using spline	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a rabbet joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a dado joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a tongue and groove joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a miter joint & lock miter joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a dovetail joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a half-lap joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a mortise-and-tenon joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a finger joint	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).9	Construct a pocket hole joint using a Kreg Jig Assembly	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5
9.4.12.M.(2).1	Understand proper application of above	2, 3, 4, 5, 7, 9, 13	1, 2, 3, 4, 7, 13, 15	1, 4, 5

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #3 Students will demonstrate knowledge of: Teaching students to read and draw blueprints.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able to know and draw:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups         14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice            9. Self-Assessment 2. Essay                         10. Class Survey 3. Fill-In-Blanks            11. Rubrics 4. Academic Prompts       12. Reflective Discussion 5. Writing Samples           13. Performance Tasks 6. Lab Report                  14. Teacher Observation 7. Problem Solving           15. Portfolio 8. Oral Presentation         16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B.(2).3	A visible or object line	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A hidden or invisible object line	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A center line	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	Dimension and extension line	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A top view	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A side view	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A front view	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A bottom view	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).3	A back view	2, 5, 6, 7, 9	5, 13	1, 2, 4

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #4 Students will demonstrate knowledge of: Teaching students to create a bill of materials and cut list.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able to explain the purpose of:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups         14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice      9. Self-Assessment 2. Essay                  10. Class Survey 3. Fill-In-Blanks        11. Rubrics 4. Academic Prompts    12. Reflective Discussion 5. Writing Samples       13. Performance Tasks 6. Lab Report             14. Teacher Observation 7. Problem Solving       15. Portfolio 8. Oral Presentation    16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B.(2).4, 5	Create a bill of materials	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).4, 5	Create a cut list	2, 5, 6, 7, 9	5, 13	1, 2, 4

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #5 Students will demonstrate knowledge of: Teaching students to use a cut list and cut out parts**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups         14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice      9. Self-Assessment 2. Essay                    10. Class Survey 3. Fill-In-Blanks        11. Rubrics 4. Academic Prompts    12. Reflective Discussion 5. Writing Samples      13. Performance Tasks 6. Lab Report              14. Teacher Observation 7. Problem Solving       15. Portfolio 8. Oral Presentation    16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B.(2).2	Use a cut list to cut-list to layout parts in a most efficient use of materials	2, 3, 5, 6, 9	7, 13, 15	7 shop equipment lumber
9.4.12.B.(2).2	Use proper woodshop equipment to cut material	2, 3, 5, 6, 9	7, 13, 15	7 shop equipment lumber

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #6 Students will demonstrate knowledge of: Teaching students to assemble project.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning 2. Teacher Directed 3. Study Groups 4. Technology 5. Demonstration 6. Cooperative Groups 7. Literature Circles 8. Participation & Discussion 9. Reading 10. Application 11. Lab (report) 12. Homework 13. Field Trip 14. Projects 15. Other (explain)	1. Multiple Choice 2. Essay 3. Fill-In-Blanks 4. Academic Prompts 5. Writing Samples 6. Lab Report 7. Problem Solving 8. Oral Presentation 9. Self-Assessment 10. Class Survey 11. Rubrics 12. Reflective Discussion 13. Performance Tasks 14. Teacher Observation 15. Portfolio 16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B.(2).12 – 14 , 17	Assemble project in proper sequence	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).12 – 14 , 17	A hidden or invisible object line	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).12 – 14 , 17	Identify types of glue and their uses	2, 5, 6, 7, 9	5, 13	1, 2, 4
9.4.12.B.(2).12 – 14 , 17	Use bar clamps, hand screw clamps, and band clamps properly	2, 5, 6, 7, 9	5, 13	1, 2, 4

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #7 Students will demonstrate knowledge of: Teaching students cabinet draw construction.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups         14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice            9. Self-Assessment 2. Essay                         10. Class Survey 3. Fill-In-Blanks            11. Rubrics 4. Academic Prompts       12. Reflective Discussion 5. Writing Samples           13. Performance Tasks 6. Lab Report                 14. Teacher Observation 7. Problem Solving           15. Portfolio 8. Oral Presentation        16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.M.(2).9	Construct a drawer using a dove tail fixture	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Construct a drawer using a dado joint	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Construct a drawer slide	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Install pre-made drawer slides	2, 3, 5, 6, 9	7, 13, 15	7



## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #8 Students will demonstrate knowledge of: Teaching students cabinet door construction.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able to demonstrate the safe:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning 2. Teacher Directed 3. Study Groups 4. Technology 5. Demonstration 6. Cooperative Groups 7. Literature Circles 8. Participation & Discussion 9. Reading 10. Application 11. Lab (report) 12. Homework 13. Field Trip 14. Projects 15. Other (explain)	1. Multiple Choice 2. Essay 3. Fill-In-Blanks 4. Academic Prompts 5. Writing Samples 6. Lab Report 7. Problem Solving 8. Oral Presentation 9. Self-Assessment 10. Class Survey 11. Rubrics 12. Reflective Discussion 13. Performance Tasks 14. Teacher Observation 15. Portfolio 16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B(2). 3, 4	Construction a flat panel door	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.B(2). 3, 4	Construction a raised panel door	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.B(2). 3, 4	Construction of the above using shaper, router, and table saw	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.B(2). 3, 4	Know design considerations and use	2, 3, 5, 6, 9	7, 13, 15	7

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

**Focus Topic #9 Students will demonstrate knowledge of: Teaching students to construct table and counter tops.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <b><u>The students will be able to explain and demonstrate:</u></b>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups         14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice            9. Self-Assessment 2. Essay                         10. Class Survey 3. Fill-In-Blanks               11. Rubrics 4. Academic Prompts        12. Reflective Discussion 5. Writing Samples            13. Performance Tasks 6. Lab Report                  14. Teacher Observation 7. Problem Solving            15. Portfolio 8. Oral Presentation         16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.M.(2).9	Construct a solid top for a table or cabinet	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Construct a cabinet or table top using plywood and edge banding (solid edge banding and veneer)	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Construct a top using plastic laminate	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.M.(2).9	Construct a top using Corian or similar type material	2, 3, 5, 6, 9	7, 13, 15	7

## MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN

Focus Topic #10 Students will demonstrate knowledge of: Teaching students to prepare and apply finish.

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>The students will be able to explain and demonstrate:</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning 2. Teacher Directed 3. Study Groups 4. Technology 5. Demonstration 6. Cooperative Groups 7. Literature Circles 8. Participation & Discussion 9. Reading 10. Application 11. Lab (report) 12. Homework 13. Field Trip 14. Projects 15. Other (explain)	1. Multiple Choice 2. Essay 3. Fill-In-Blanks 4. Academic Prompts 5. Writing Samples 6. Lab Report 7. Problem Solving 8. Oral Presentation 9. Self-Assessment 10. Class Survey 11. Rubrics 12. Reflective Discussion 13. Performance Tasks 14. Teacher Observation 15. Portfolio 16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.4.12.B.(2).4, 5	Sand a project with proper abrasives	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.B.(2).4, 5	Apply a stain	2, 3, 5, 6, 9	7, 13, 15	7
9.4.12.B.(2).4, 5	Apply appropriate top coats	2, 3, 5, 6, 9	7, 13, 15	7

**MONROE TOWNSHIP PUBLIC SCHOOLS INSTRUCTIONAL PLAN**

**Focus Topic #11 Students will demonstrate knowledge of: Students will be aware of job opportunities.**

Content Standard CPI	Established Goals Content Objectives Measurable Skills <u>Students will know all employment opportunities related to cabinetmaking</u>	Suggested Instructional Strategies/Activities	Assessment Strategies	Materials, Technology Resources
		1. Problem Based Learning      9. Reading 2. Teacher Directed            10. Application 3. Study Groups                  11. Lab (report) 4. Technology                    12. Homework 5. Demonstration               13. Field Trip 6. Cooperative Groups        14. Projects 7. Literature Circles            15. Other (explain) 8. Participation & Discussion	1. Multiple Choice            9. Self-Assessment 2. Essay                         10. Class Survey 3. Fill-In-Blanks               11. Rubrics 4. Academic Prompts        12. Reflective Discussion 5. Writing Samples            13. Performance Tasks 6. Lab Report                  14. Teacher Observation 7. Problem Solving            15. Portfolio 8. Oral Presentation         16. Other (explain)	1. Textbooks 2. Technology Software 3. Technology Hardware 4. Graphic Organizers 5. AVA/Video 6. Primary Sources 7. Resource People 8. Internet Resources
9.3.8.B.7, 14	Look for employment opportunities in news papers and internet	2, 3, 5, 6, 8	7, 13	1, 2, 4, 6
9.3.8.C.1 – 9	Presentations from various related unions	2, 3, 5, 6, 8	7, 13	1, 2, 4, 6
9.3.8.C.1 – 9	Presentations from various professionals in work related areas	2, 3, 5, 6, 8	7, 13	1, 2, 4, 6

# **APPENDIX**

## **Resources**

1. Modern Woodworking, Goodheart -Willcox Company, Inc.
2. Modern Cabinetmaking, Goodheart -Willcox Company, Inc.
3. Cabinetmaking And Millwork, Chas. A. Bennett Company
4. Fine Wood Working, Taunton's
5. Various internet sites ex. [www.finewoodworking.com](http://www.finewoodworking.com)
6. Experts in the field of cabinetmaking

## **Assessment**

1. Measured by test
2. Measured by manual performance (daily shop grade, teacher observation of student's ability, to safely use equipment and construct project).
3. Project will be grades compared to professional constructed furniture.

## **Activities**

1. Have a professional cabinet maker come into class for a demonstration on a various woodworking procedures.
2. Give student a demonstration of the safe use of the router, in draw construction.
3. Demonstrate to student the safe use of the shaper in raised panel cabinet door construction.
4. Have student(s) give a lesson to the class on a specific cabinet making procedure.
5. Students will research an employment opportunity in woodworking industry and present it to the class, to include salary, benefits, job description, necessary education and job related experience.