Pacing Guide: Woods 1A					
Content and Duration	**Content Expectation (GLCE/HSCE)**	**Student Learning Targets**	**Content Vocabulary**	**Required Activities**	**Common Assessments and Rubrics**
Beginning Woodworking by **John L. Feirer** **Chapter 2 - Safety** **Week 1**	**The students shall understand the importance of safety as related to how they behave and to what they wear**	**I can follow the Personal Safety Rules that apply to the Lab Area**		**Students shall do a Quick Write on Why Safety is important to them and their peers** **Answer Question at end of Chapter and in the Work Book**	**End of Unit TEST**
Beginning Woodworking by **John L. Feirer** **Chapter 10 Machines in Woodworking** **Week 2 – 2 days**	**Students are introduce to six simple machines Incline plane, Wedge, Screw, Lever, Wheel and Axle, and pulley**	**I can identify each of the six simple machines.**	**Incline plane, Wedge, Screw, Lever, Wheel and Axle, and pulley**	**Find one example of each of the simple machines in the Lab** **Answer Question at end of Chapter and in the Work Book**	**Explain how each of the simple machines are capable of doing work.**
Beginning Woodworking by **John L. Feirer** **Chapter 11 Handsaws – Rip and Crosscut** **Week 2 – 2 days**	**Students are to know the difference between a Rip Saw and a Crosscut Saw** **Students are to be able to identify the direction the grain runs in lumber.**	**I can identify the direction the grain runs in lumber which determines the appropriate saw to use when cutting boards**	**Rip Saw** **Cross-Cut** **Saw**	**Answer Question at end of Chapter and in the Work Book**	**End of Unit TEST**

Beginning Woodworking by John L. Feirer **Chapter 12 Assembling and Adjusting a Plane** **Week 2 –1 day** **Week 3 – 1 day**	**Student are to know how to disassemble and assemble a plane and adjust it**	**I can identify the various parts of a Plane** **I can properly assemble a plane** **I can adjust a plane to the appropriate cutting depth**	**Lateral Lever, Frog, Cap Screw, "Y" Lever, Mouth , Heel**	**Disassemble and Reassemble a plane per examples given in the chapter** **Answer Question at end of Chapter and in the Work Book**	**End of Unit TEST**
Beginning Woodworking by John L. Feirer **Chapter 16 Using a Backsaw** **Week 3 – 2 days**	**Students are to know when to use a Backsaw and how to cut using a Backsaw**	**I can make a precise cut with a backsaw** **I can make a very smooth cut with a back saw**	**Miter Box** **Kerf**	**Compare and contrast a Crosscut to Backsaw** **Answer Question at end of Chapter and in the Work Book**	**End of Unit TEST**
Beginning Woodworking by John L. Feirer **Chapter 17 Squaring Up Stock** **Week 3 – 1 day**	**Students are to recognize that most rough lumber is not Square and must be squared up to be used.**	**I can identify each of the tools used in squaring up stock**	**Carpenter's Square** **T Square** **Common Square**	**Compare and contrast the various squares** **Answer Question at end of Chapter and in the Work Book**	**Demonstrate the appropriate use of each type of square**
Beginning Woodworking by John L. Feirer **Chapter 19 Cutting Curves and Inside Openings** **Week 3 – 1 day**	**Students shall know the when and how to use either the Keyhole Saw or the Coping Saw**	**I can use a Coping Saw to cut intricate shapes.** **I can use a Keyhole Saw to cut from the inside of starter hole**	**Coping Saw** **Keyhole Saw**	**Answer Question at end of Chapter and in the Work Book**	**End of Unit TEST**

Beginning Woodworking by **John L. Feirer** **Chapter 6 Reading a Drawing and Making a Shop Sketch** **Week 4 – 3 days**	**Students learn the need for making a properly labeling both 2D and 3D sketches**	**I can make a 2D sketch and label the dimensions as needed.** **I can make a 3D representation of my 2D sketches**	**2D Front** **2D Side** **2D Top** **3D**	**Design a project in which the student would like to make** **Answer Question at end of Chapter and in the Work Book**	**Sketch and properly dimension a project on the back of a PLAN SHEET**
Beginning Woodworking by **John L. Feirer** **Chapter 7 Planning Your Work** **Week 4 – 2 days**	**The students shall understand the importance of a PLAN Sheet before starting a project**	**I can calculate the number of Board Feet that my project will require** **I can calculate the total cost of my project before I begin**	**Board Feet** **Cost/Board foot**	**Complete the front side of the PLAN SHEET** **Answer Question at end of Chapter and in the Work Book**	**Verify the accuracy of the PLAN SHEET with the Teacher**
Weeks 5 – 10	**During these five weeks the students will build a project per their PLAN SHEET**	**I can build my project per my PLAN SHEET**	**Cut and Fit, Pre-finish, Assembly, and Final Finish**	**Build Their Project**	**Grading will be determined on how well the student; Cut and Fit, Pre-finish, Assembly, and Final Finish**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8 Unit 54 Wood Science** **Week 11 – Day 1**	**Students shall understand that all living things are made up of cells**	**I can name the principle parts of a tree** **I can name the simple wood cells** **I can explain how moisture affect wood** **I can identify wood defects**	**Pith,** **Heartwood,** **Summerwood,** **Sapwood,** **Deciduous,** **Coniferous,**	**Answer questions at the end of Unit**	**End of Section TEST**

Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8 Unit 55 Logging and Sawmill Industry** **Week 11 – Day 2**	**Students are introduced to the many occupations that are connected to the lumbering industry**	**I can list the jobs done on logging sites** **I can descried how lumber is cut** **I can state methods of seasoning lumber**	**Logger,** **Chocker Line,** **Headrig,** **Edger,** **Trim Saw,** **Grader**	**Answer questions at the end of Unit**	**End of Unit TEST**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8 Unit 56 Grading Lumber** **Week 11 – Day 3**	**Students shall learn how the varieties of wood are used and how they are classified**	**I can name major softwood and Hardwood grains** **I can name common applications for major grades of lumber** **I can list nominal and dressed sizes of lumber**	**Western Wood Products Association, Southern Pine Inspection Bureau, National Hardwood Association, Scaling Stick**	**Answer questions at the end of Unit**	**End of Section TEST**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8 Unit 57 Veneers** **Week 11 – Day 4**	**Students shall know how veneer is made and it's applications**	**I can list the methods of varying the grain pattern** **I can identify veneer panels**	**Rotary Cut,** **Flat Slice,** **Quarter Slice,** **Veneer Saw**	**Answer questions at the end of Unit**	**End of Section TEST**

Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8** **Unit 58** **Plywood** **Week 11 – Day 5**	**Student learn how plywood is constructed and the numerous applications it has**	**I can Identify different types of Plywood** **I can explain the manufacturing process in making plywood** **I Can describe the major grades of Plywood**	**Veneer Core,** **Lumber Core,** **Particle Board Core,** **Appearance Grade**	**Answer questions at the end of Unit**	**Students shall do a Quick Write on the advantages of using plywood**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8** **Unit 59** **Pariticle Board** **Week 12 – Day 1**	**Students are presented with ways that wood "waste" can be turned into useful building materials**	**I can List the advantages and disadvantages of using particle board** **I can describe how particle board is made**	**Binder** **Wood Furnish** **Hog** **Density**	**Answer questions at the end of Unit**	**End of Section TEST**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8** **Unit 60** **Hard Board** **Week 12 – Day 2**	**Students learn that adding resins to wood particles under heat and pressure "new" products can be developed**	**I can Identify the major advantages of Hard board** **I can describe the manufacturing process in making Hard board**	**Tempered Grade,** **Service Grade,** **Pegboard**	**Answer questions at the end of Unit**	**End of Section TEST**

Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Section 8 Unit 62 Wood Preservatives and Fire Retardants** **Week 12 – Day 3**	**Students shall understand that wood can be made to resist rot, decay, and water damaged and given the treatment of chemicals can also withstand high temperatures.**	**I can name the major types of preservatives and methods of applications** **I can describe how fire retardants protect wood**	**Oil Preservatives,** **Waterborne Preservatives,** **Fire Retardant**	**Answer questions at the end of Unit**	**Students shall do a Quick Write on the advantages of Oil based Preservatives** **Students shall do a Quick Write on the advantages of Waterborne Preservatives**
Woodworking Tools, Materials, Processes ***Spence and Griffiths*** **Comprehensive Review of Section 8** **Week 12 – Day 3**					
Comprehensive Review of Tri-mester **Week 12 – Day 4**					
Week 12 – Day 5					**Comprehensive EXAM**