## **INDUSTRIAL TECHNOLOGY**

BUILDING TECHNOLOGY LEVEL 7

Topic	Skills	Knowledge	Understanding	Attitude	Content	Method/ Strategies	Material	Evaluation	Area of Integration
Job opportun- ities in the field of woods.	How to research and file information about people who work with wood.	List the job opportunities accessible in the field of woods.  Explain the function of each career identified.	Identifying possible careers for the future.  Develop an appreciation for available exposure in the field.	Recognize the number of career choices identified in the field of woods.  Respect for each category of worker.  Successful careers depend on	The wood industry offers many opportunities for work.  People who work include:- Furniture-designer, Teacher, Cabinet-maker, Carpenter, Forester, Pattern maker.		Textbook –  Industrial Arts for Secondary School Bk 1.  Handouts and other material on careers, and career opportunities.	Written assignment to produce a list of woods.  Related occupations with their related duties.  Written Work  Quiz.	
				positive study habits and application.					

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Safety		List general workshop safety rules.	Develop the ability to observe safety rules.	Cultivate the habit of safety while developing skills.  Develop the practice of safe behaviour everywhere, e.g. home, workshop etc.  Orderliness	The need for safe practices:  - the importance of safe behaviour.  - How to develop good safety habits.  - Safety rules for the workshop.  Clothing and personal dress.  Good housekeeping.  Hand tools injuries.	State, discuss and demonstrate the need for observing safety practices.  Written work – given rules.	Textbook –  Industrial Arts for Secondary School BK 1.  Tools: e.g. chisels, power tools.	Observe and demonstrate safety precautions in handling of tools.  Prepare a list of unsafe acts seen in the home, on the street, in school.	Woods Agriculture Science Home Economics.

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						Strategies			Integration
Introduction	Draw and	List basic hand	Develop	Hand tools –	Identifying tools	Textbook –	Oral question –		Wood
to basic	label the	tools used in	acceptable tool use	their use, care,					
hand tools	parts of each	Woodwork.	habits.	maintenance,	Selecting specific	Theory and Practical	the difference		Agriculture
	tool.			safety	tools	of Woodwork by	between a		Science
Identi-			Explain the use of	procedures.		George Love	hand tool and		
fication of			each tool.		Handling tools		a power tool.		Integrated
basic hand				Develop the	Written work	Tools			Science.
tools used in				proper use and			Explanation of		
Woodwork.				care for tools.			the purpose of		
							given tools.		

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Classification of hand tools.  List types of tools use e.g. layout, measuring and checking cuts- e.g. rip cross cut, san simple curves.	(1) Identifying hand tools according to their use (2) Explain the work of each tool.	Description of tools used for: (a) Layout, measuring devices e.g. rule, try square, marking gauge etc.  (b) Cutting tools, saws, planes, chisels spoke shave, etc.  (c) Driving tools:- hammers, mallets and screwdrivers.  (d) Holding tools: - e.g. clamps etc.	Selection of:- (1) marking out tools.  2) Cutting tools (3) Holding tools (4) Drilling and boring tools.	Develop an awareness in the correct use of: (a) measuring and layout tools. (b) Cutting tools. (c) Driving tools.	Tools are classified according to the work they do: (1) Layout, measuring devices e.g. rule, try square, marking guage etc. (2) Cutting tools, saws, planes, chisels, spoke shave, etc. (3) Driving tools:-hammers, mallets and screwdrivers. (4) Holding tools: - e.g. clamps etc.	Demonstration on the use of the following tools: (a) layout measuring and checking tools.  (b) Cutting tools – Cross cut saw Rip saw.  Project – (1) Wall plaque  (2) Bench hook  Drawing of project to dimension.	Text: Industrial Arts for Secondary School BK1. Tools – material for project. Given list of tools classified according to their uses.	Oral question on the following: Classification of tools Purpose of specific tools – - Observation of students.  Demonstration on project.	Woods Agriculture Science Mathematics

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Introduction of Guyana Timber	Identifying timbers grown in Guyana.	List the names of timber grown in Guyana.	Explain the purpose of these identified timber.	Timber producing trees grow in the hilly and mountainous parts of Guyana.  Some of them are:- Crabwood, Greenheart, Wallaba, Purpleheart etc.		Examining sample species of Guyana timber.  Discussion of – (a) appearance of each specie.  (b) purpose of each specie.	Text;- sample of species.	Oral questions on the following: Sample of wood - Application of each.	Wood Agriculture Science Integrated Science Social Studies.
The work bench	Identifying the appearance of a work bench.	List the parts of the work bench.  Identifying the important features of a work bench.	State the use of each part identifying the following facts – tidiness not abused.	Develop awareness that the work bench is necessary to support the timber during operation.	The woodworker needs a work bench to support the timber, while he works on it with tools.	Demonstrate the use of each part of the work bench.  Explain care and maintenance of the work bench.	Work bench Tools: Project: Textbook	Practical Demonstration by students.	Metal,  Mathematics  Technical Drawing.
Foreign woods	Identification of foreign timber.  Identify hardwoods and softwoods.	List well known foreign woods; e.g. oak, pitch pine, ash and mahogany.  Describe the characteristic features of each timber identified.	Selection of timber which give the best result e.g. use of softwoods.  Use of hardwoods.	Develop an awareness for these foreign woods.	Softwoods – Pitch pine used for heavy construction.  Douglas fin – similar to pitch pineetc.  Hardwoods – ash-used for tool handles.  Mahogany – used for high class joinery.		Text- The Theory and Practice of Woodwork By George Love.		Woods Agriculture Science Home Economics.

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The class- ification of the timber tree.	Identifying the groups of trees that are important to the Woodworker.	Name the two groups of timber trees.	Certain trees provide the timbers for common use.	Develop an awareness that there are two groups of timber trees.	-The Conifers are the conebearing trees with needle leaves, whose seeds are produced "naked".  -The Dicotyledons  -The Our Deciduous trees.	· ·	Text- The Theory and Practice of Woodwork by George Love.		Woods Agriculture Science Home Economics.
The Growth and structure of wood	Identifying parts seen in the cross-section of a tree trunk.  Sketch and label parts identified in the section of a tree trunk.	List parts identified in the cross-section of a tree trunk.  Explain the growth and structure of timber.	Discuss the importance of each part identified.	Develop an awareness on the function of each identified part seen in the structure of wood.	Like all living organisms, trees are composed of immense numbers of minute cells or sacs of different shapes, structures and purposes e.g. annual rings, heartwood, sapwood etc.		Text:- Theory and Practice of Woodwork by George Love		Woods Agriculture Science Home Economics