

## WASSCE / WAEC FURNITURE MAKING SYLLABUS

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### SCHEME OF EXAMINATION

The examination shall comprise three compulsory papers, namely Papers 1, 2 and 3. Papers 1 and 2 shall be a composite one and will be taken at one sitting.

Paper 1: This shall consist of 40 compulsory multiple choice questions to be answered within 45 minutes for 40 marks.

Paper 2: This shall comprise two sections, Sections A and B and will take 2 hours.

Section A: This shall consist of ten compulsory short structured questions to be answered within 30 minutes for 20 marks.

Section B: This shall consist of three questions on design and drawing one of which shall be compulsory. Each question shall require sketches. Candidates shall be required to answer the compulsory question for 30 marks and any other question for 10 marks. The section shall take 1½ hours.

Paper 3: Shall consist of one practical task to be performed within 3 hours for 100 marks. A list of materials for the test shall be made available to schools not less than two weeks before the scheduled date for the paper, for procurement and preparation for the test.

Alternatively, Council may consider testing candidates using the alternative to practical work method in the event of constraints on requisite facilities. For this, there shall be two compulsory questions for candidates to answer within 2 hours for 100 marks. These shall test candidates' real time experience in the workshops on safe use of tools, marking out, processing parts to specification, use of materials, etc. Freehand sketches of projects, tools and machines relating to furniture making may be required.

### DETAILED SYLLABUS

S/NO.	CONTENTS	NOTES
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1	Furniture Workshop.	<ul style="list-style-type: none"> <li>- Workshop safety rules and regulations</li> <li>- Hand tools safety</li> <li>- Workshop bench and appliances</li> <li>- Machine tools safety</li> <li>- Portable power tools safety</li> <li>- Sources of workshop accident.</li> </ul>
		<ul style="list-style-type: none"> <li>- Timber growth, structure, classification, parts and cross section.</li> </ul>

2	Furniture Making Materials.	<ul style="list-style-type: none"> <li>- Conversion of timber, methods, advantages and disadvantages.</li> <li>- Seasoning of timber, methods, advantages and disadvantages.</li> <li>- Defects in timbers, causes, classification, illustrations with sketches.</li> <li>- Preservation of timber, preservatives - characteristics, types and applications.</li> <li>- Manufactured boards, types, method of production, uses, advantages, disadvantages and sketches.</li> <li>- Wood adhesive definition applications, preparation, types, uses and characteristics.</li> <li>- Nails and uses – sketches, methods of driving in nails.</li> <li>- Screw types and uses, illustration with sketches and methods of driving in screws.</li> <li>- Cabinet fittings, types, uses, sketches and procedures of fittings.</li> </ul>
3	Woodworking tools and equipment.	<ul style="list-style-type: none"> <li>- Hand tools – types, classification, uses and sketches.</li> <li>- Machines – types, uses and operation.</li> <li>- Portable power tools – types and operations.</li> <li>- Other tools and equipment used in furniture making.</li> <li>- Maintenance of furniture tools and equipment.</li> </ul>
4	Furniture Design and Construction.	<ul style="list-style-type: none"> <li>- Timber preparation – cutting to sizes, marking and planing timber to final sizes.</li> <li>- Common wood work joints – types, classification and uses.</li> <li>- Construction – types of construction-frame box construction.</li> <li>- Free hand sketching of common household furniture items.</li> <li>- Design fundamentals, elements and principles of design.</li> <li>- Stages – preliminary sketches and working drawing.</li> <li>- Planning – working rod, selection of materials, cutting list.</li> <li>- Construction of different items of furniture, procedures – preparation of materials, setting out of joints, cutting of joints, assembling and finishing.</li> </ul>
5	Upholstery work.	<ul style="list-style-type: none"> <li>- Meaning and forms.</li> <li>- Tools and machines.</li> <li>- Traditional and modern padding materials.</li> <li>- Design and construction of upholstery frames.</li> <li>- Padding and stuffing.</li> <li>- Fixing sewn materials.</li> </ul>
6	Entrepreneurship in furniture marking.	<ul style="list-style-type: none"> <li>- Business opportunities in furniture making.</li> <li>- Starting a furniture business, factors to be considered.</li> <li>- Managing of furniture workshop, estimate and costing of furniture item.</li> </ul>

**LIST OF FACILITIES AND MAJOR EQUIPMENT/MATERIALS REQUIRED:**

<b>ITEM NO</b>	<b>EQUIPMENT</b>	<b>QUANTITY REQUIRED</b>
1.	Try Square	20
2.	Mitre Square	10
3.	Sliding Bevel	10
4.	Marking Gauge	10
5.	Mortise Gauge	10
6.	Marking knives	10
7.	Four Fold (wooden Rule)	10
8.	Tape Rule (Metric)	20
9.	Jack Plane	10
10.	Smooth Plane	10
11.	Trying Plane (jointing Plane)	5
12.	Block Plane	5
13.	Rebate Plane	5
14.	G Clamp	5
15.	Plough Plane	5
16.	Bull Nose Plane	2
17.	Router Plane	2
18.	Rip Saw	10
19.	Crosscut Saw	10
20.	Tenon Saw	15
21.	Panel Saw	10
22.	Coping Saw	5
23.	Compass Saw	2
24.	Nest of Saws	2
25.	Keyhole/pad Saw	1
26.	Fret Saw	2
27.	Dovetail Saw	5
28.	Firmer Chisel	10 sets
29.	Bevelled Edge Firmer Chisel	10 sets
30.	Mortise Chisel (set)	10 sets
31.	Turning Chisel	2 sets
32.	Centre bit	5 sets
33.	Auger Bit	5 sets
34.	Twist Bit	5 sets
35.	Rose	2 sets
36.	Bradawl	10
37.	Gimlet	5 sets

38.	Ratchet brace	5
39.	Dowel Rounder	5
40.	Drill Bit	10 sets
41.	Screw Driver (set of 6)	5 sets
43.	Mallet	20
44.	Claw Hammer	10
45.	Cross Pein Hammer	10
46.	Ball Pein Hammer	10
47.	'F' Clamp	10
48.	Sash Clamp	10
49.	Hand Screw	10
50.	Bench Holdfast	5
51.	Mitre Box	5
52.	Mitre Cramp	5
53.	Mitre Shooting Board	5
54.	Flat Files (assorted)	10
55.	Scraper(flat)	10
56.	Dividers	10
57.	Pincers	5
58.	Spoke shave	2
59.	Dowelling jig	5
60.	Rasps	10
61.	Sewing Machine	2
62.	Scissors	10
63.	Staple Gun	2
64.	Needle (set) Curved and Straight	10
65.	Tack Hammer	10
66.	Pliers	5
67.	Magnetic Hammer	5
68.	Ripping Chisel	5
69.	Knives	5
70.	Tape (tailors type)	10
71.	Web Strainer	10
72.	Spring Cutter	5
73.	Spanner (set)	2 sets
74.	Wrenches	2 sets
75.	Botton Making Machine	2
76.	Work Bench	10
77.	Bench Vice	20
78.	Paint brush (sets)	5
79.	Putty knives	5
80.	Storage box	2

81.	Water stone	2
82.	Oil can	2
83.	Veneer hammer	2
84.	First-aid box	1

APPENDIX E:

SUGGESTED READING LIST

S/N	NAME	AUTHOR	PUBLISHER
1	WOODWORK FOR G.C.E & C.S.E (Metric Edition)	J.N GREEN	Mills and Boon Ltd
2	WOODWORK IN THEORY & PRACTICE	JOHN .A.WALTON	
3	MODERN WOODWORKING	WILLIS .H.WAGNER	The Goodheart -Willcox, Inc
4	WOOD OCCUPATIONS	PETER BRETT	Nelson Thorns
5	THE THEORY AND PRACTICE OF WOODWORK (4 <sup>th</sup> Edition)	GEORGE LOVE	Longman
6	CONSTRUCTING MODERN FURNITURE	VICTOR .J.TAYLOR	Sterling publishing Co. Inc New York
7	PRACTICAL UPHOLSTERY	C.HOWES F.A.M.U	Evans brothers Ltd London
8	WOODWORK DESIGN AND PRACTICE	DAVID .M.SHAW	Hodder and Stoughton London Sydney, Auckland Toronto