MARKER CODE					

STUDENT ENROLMENT NUMBER								



Samoa School Certificate

DESIGN TECNOLOGY 2015

QUESTION and ANSWER BOOKLET

Time Allowed: 3 Hours & 10 Minute

INSTRUCTIONS

- 1. You have 10 minutes to read **before** you start writing.
- 2. Write your **Student Education Number** (SEN) in the space provided on the top right hand corner of this page.
- 3. Answer ALL QUESTIONS. Write your answers in the spaces provided in this booklet.
- 4. If you need more space for answers, ask the Supervisor for extra paper. Write your SEN on all extra sheets used and clearly number the questions. Attach the extra sheets at the appropriate places in this booklet.

STRANDS	Page Number	Time (minutes)	Weighting
STRAND 1: - DESIGNING AND DRAWING	2	45	25
STRAND 2: SAFETY OF TOOLS	7	27	15
STRAND 3: MATERIALS	11	36	20
STRAND 4: PROCESSES	15	54	30
STRAND 5: TECHNOLOGY	21	18	10
TOTAL		180	100

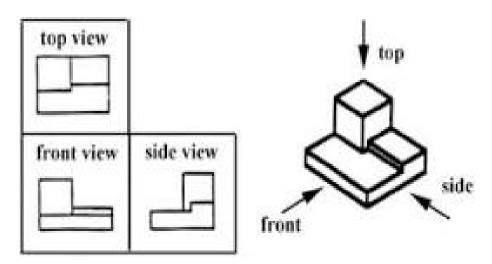
Check that this booklet contains pages 2-22 in the correct order and that none of these pages is blank.

YOU MUST HAND THIS BOOKLET TO THE SUPERVISORAT THE END OF THE EXAMINATION.

STRAND 1	DESIGNING AND DRAWING	WEIGHTING 25
JIINAND I	DESIGNING AND DIVAMING	WEIGHTING 23

۱.	State an example of a problem before designing a Design brief.	
		Skill Level 1 1 0 NR
	Name a type of line that is very useful when working on sketches	
		Skill Level 1 0 NR
	Define the term Oblique projection.	
		Skill Level 1 0 NR
	Name two things that are very useful when we prepare a situational problem.	
	(i)	Skill Level 1 0 NR
	(ii)	
		Skill Level 1 0 NR

The drawing below is an Orthographic Drawing. Study the diagram and answer questions provided.



5.1 The best unit or units that are very important to measure the top view of a floor plan is _____

Skill I	Level 1
1	
0	
NR	

5.2 List down two advantages of using Orthographic Drawing in planning for a project.

SKIII	Leve
2	
1	
0	
 NR	

					Skill L
					3 2 1
					0 NR
	line which is v	ery useful wh	en working or	n a technical	
Name one drawing.	line which is v	ery useful wh	en working or	n a technical	Skill Lo
	line which is v	ery useful wh	en working or	n a technical	Skill Lo
	line which is v	ery useful wh	en working or	n a technical	1
drawing.	line which is v				1 0
drawing.					1 0
drawing.					1 0
drawing.					1 0

Summarize in three sentences the purposes of using sketches and how can we include in the process of finishing project.	
	Skill Leve
	1 0 NR
Define the term Isometric Drawing .	
	Skill Leve 1 0 NR

	Skill Leve
Measurements are very important in designing pictorial drawings. How do you measure the straight and height of a construction project in terms of units?	
	Skill Leve

STRAND 2: TOOLS AND SAFETY

WEIGHTING 15

Skill Level 3

1. The pictures below show some power tools and basic hand tools. Study the pictures and answer question followed.



Some power tools and hand tools are shown above. Differentiate between Hand tools and Power tools in your own words.

Tidila toolo ana i owoi toolo in your own words.	

Study the diagram below and then answer the following questions.



2.	A set of tools used are placed above constructive purposes.	Name
	the tools as pointed by arrows in the above diagram	

A:		

Skill Level 1		
1		
0		
NR		

B:

Skill Level 1		
1		
0		
NR		

C:

Skill Level 1		
1		
0		
NR		

D: _____

Skill Level 1		
1		
0		
NR		

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.).	- FOILIUMAIE IIIE		. OI III I ⊟ ICIC	1 11141760 0 15

Skill Level 2		
2		
1		
0		
NR		

Study the diagram below and answer questions followed.



4. Fill in the table below with the name and functions of the tools in the picture

	Name of Tool	Function
I		
II		
III		
IV		

Skill Level 4		
4		
3		
2		
1		
0		
NR		

5. Below are some of the basic tools in our schools workshops. Each of the tools have been grouped according to their functions.

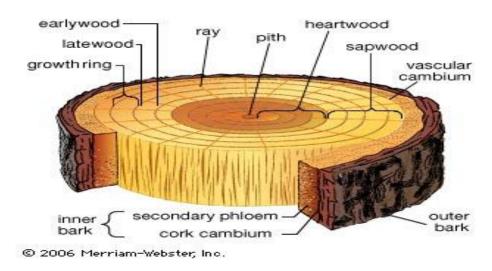


6. Name any two tools used in marking designs of edges of furniture

Skill I	Level 2
2	
1	
0	
NR	

STRAND 3 MATERIALS WEIGHTING 20

The Cross Sections of a tree is shown. Study the figure below and answer the following questions.



1. The part of the tree which determined the **growth** is:

Skill Level 1					
1					
0					
NR					

2. Differentiate in three sentences the differences between foreign timbers and local timbers.

Skill I	Skill Level 3			
3				
2				
1				
0				
NR				

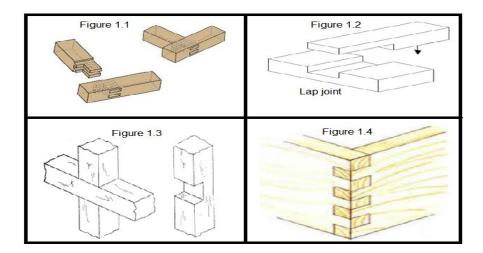
State four properties of wood	
1	Skill Level 1 0 NR
2	Skill Leve 1 0 NR
3	Skill Level 1 0 NR
4	Skill Leve
There are many properties of timbers. State one property you been experienced.	<u> </u>

1						
						0
					_	Skill Lev 2
2						0 NR
						1111
					_	
List toos sub-		sis su su stata in			tl	
List two adv using timbers		sing metals ir	n construction	n projects	tnan	
1						
!						
						Skill Lev
2						Skill Lev
2						2
2	ly the term d					1 0
2	ly the term d					1 0
2	ly the term d					1 0
2	ly the term d					2 1 0 NR
2	ly the term d					2 1 0 NR
2	ly the term d					2 1 0 NR

4					
1	 	 			
	 	 			
2					
				CL:II	
				Skill I	Lev
				3	
				2	
3	 	 		1	
				0	
	 	 		NR	
4	 	 			

STRAND 4 **PROCESSES WEIGHTING 30**

The figures below are joints that we always used in our construction works. Study the four figures below and answer the given questions.



Complete the table below with names and functions of joints.

	Name of joint	Purpose or used of joint	
1			(8 marks)???
2			
3			
4			

2.	Evaluate on design brief in relation to your expectations of the solution and explain how you solve the problem. Explain in your own words.	
		Skill Level 4
		3 2
		1 0 NR
		INIX
3.	What special tool could we use to smooth edges of a timber? Give the name of the tool.	
		Skill Level 1
		0 NR

4. List two important paints that are very useful in finishing works and state the advantages of each paint name to our finishing works.

	Name	Advantage	
i			Skill Level 2 2 1 0 NR
ii			Skill Level 2 2 1 0 NR

5.	Which table?	type	of	material	that	will	most	needed	for	legs	of	а	dining		
														Skill I	Level 1
														1	
														0	
														NR	

6.	In one paragraph explain with practice really means to ou constructions.	good examples of the contract	what a good trade of carpentry and	
				Skill Level 4
				3
				2
				1
				0
				NR
				

7. The table below shows some useful drawing for the process of making. Study the table and complete by filling spaces.

Process of drawing: In the space provided below make a brief detailed drawing of a coffee table of your own dimensions.

Eg. Isometric etc

Show all dimensions and lines.

Name of drawing	Technical drawing

Skill Level 3					
3					
2					
1					
0					
NR					

Explain the following terms.	
Expectations	
	Skill Level 1
	0 NR
Durable	
	Skill Level 1
	0 NR
Extension Lines	
	<u> </u>
	Skill Level 1
	0 NR

STRAND 5	TECHNOLOGY	WEIGHTING 10

1. In the space below, sketch a sliding bevel, and explain how and why it is used.

Sketch	Explanations	
		Skill Level 2 2 1
		0 NR
Define the following terms and give	e example if possible	
Cutting list		
		Skill Level 2
		1

Ortini	201012
2	
1	
0	
NR	

Air	Seasoning

2.

Skill Level 2					
2					
1					
0					
NR					

Block Plane		
	Skill	Level 2
	2	
	1	
	0	
	NR	
Marking Knife		
	Skill	Level 2
	2	
	1	
	0	
	NR	

STUDENT EDUCATION NUMBER									

DESIGN TECHNOLOGY

(For Markers only)

STRANDS	Weighting	Marker	Check Marker	Final Weighting
TOTAL	100			