

STUDENT EDUCATION NUMBER									

Samoa National Junior Secondary Certificate

DESIGN TECHNOLOGY 2024

QUESTION and ANSWER BOOKLET

Time allowed: 3 Hours & 10 minutes

INSTRUCTIONS

- 1. You have 10 minutes to read **before** you start the exam.
- 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 paper to write your answers, ask the Supervisor. Write your SEN on all extra sheets used and clearly number the questions. Attach the extra sheets to the appropriate places in this booklet.

	STRANDS	Pages	Time (min)	Weighting
STRAND 1	DESIGNING Demonstrate knowledge and understanding of the principles of design and solving practical problems through the design process.	2-5	50	25
STRAND 2	DRAWING Develop the ability to communicate in graphic and verbal forms.	6-7	25	15
STRAND 3	TOOLS Demonstrate knowledge and understanding of the safe use and care of tools in the workshop.	8-10	25	15
STRAND 4	MATERIALS Demonstrate knowledge and understanding of the use of variety of materials used in a school workshop.	11-12	25	15
STRAND 5	PROCESSES Demonstrate knowledge and understanding of the processes used when working with materials and tools in the workshop.	13-16	50	25
STRAND 6	TECHNOLOGY Demonstrate knowledge and understanding of the nature of technology and its effects on the lives of people.	17	5	5
	TOTAL		180	100

Check that this booklet contains pages 2 - 18 in the correct order and that none of these pages are blank.

HAND THIS BOOKLET TO THE SUPERVISOR AT THE END OF THE EXAMINATION.

STRA	ND 1	DESIGNING	WEIGH	TING 25
1.	Name ONE stage in	the Design Brief.		SL 1
	A			
2.	Name TWO stages i	n the Design Process.		
	A			SL 1
	В			
3.	Define a design brie	f.		
			-	SL 1
4.	Draw a free hand sk	etch for a coin box.		
				SL 2
				3.2
5.	List the TWO types	of design briefs.		
	A			SL 2
	В			

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	SL
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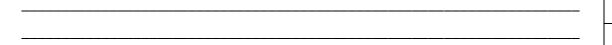
STRAN	D 2 DRAWING	WEIGHTING 15
12.	Define the term dimension line in drawing.	
13.	List TWO drawing instruments.	
	A	SL 2
	B	
14.	List the TWO types of lettering and numbering in drawing.	
	A	SL 2
	B	
15.	Explain the purpose of a project plan.	
		SL 3
		-

		S
		
Discuss the purpose of a scale in relation to drawing.		
S		
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Define the following in your owr	۱ words.
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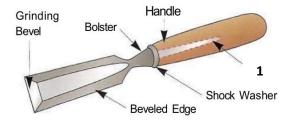
(i)	Power	Tools
(1)	Power	1 001







19. Label the following diagram.





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20.	Describe	the	tunction	ot a	marking gauge	

SL 2

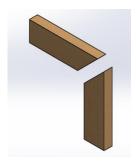
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Explain the function	n of a nail pund	ch.		
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Compare the usage of a router and a coping saw.		
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SL 2	

Explain the quality of a local timber.	_
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Clarify how timber is graded.	
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Differentiate the appearance of a softwood and hardwood tree.	
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- 31. Identify the following type of timber joint.
 - A. Timber joint type A.



SL 1

B. Timber joint type B.



SL 1

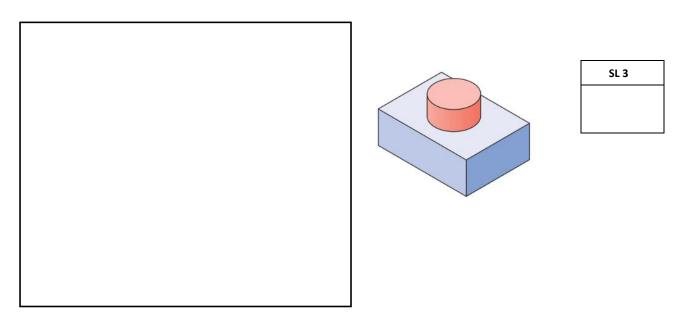
C. Timber joint type C.



SL 1

		SL
Lis	st TWO ways to fix hammer mark on a timber surface without reducing its size.	
1.		SL 2
2.		
De	escribe ways to apply a stain on a timber.	
		SL
_		
De	escribe the reason why we need to measure twice before cutting a timber.	
		SL

36. Interpret the following drawing and draw it to a 3rd Angle Projection.



	 	 		SI
				
				

38.	Convert the following Units. Show calculations.	
	A. 2'8" =mm	
	Working Out	SL 4
	B. 2.8 meter =inches	
	Working Out	
39.	Differentiate the application of a folding rule and a tape measure.	
		SL 4
		-
		-

TRAN	ND 6	TECHNOLOGY	WEIGHTING 5
40.	List TWO advantages	of technology to our everyday practices.	
	A		SL 2
	В		
41.	Explain the disadvant	ages of technology to the environment.	
			SL 3

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SNJSC DESIGN TECHNOLOGY

2024

(For Scorers only)

S	FRANDS	Weighting	Scores	Check Scorer	AED Check
STRAND 1	DESIGNING	25			
STRAND 2	DRAWING	15			
STRAND 3	TOOLS	15			
STRAND 4	MATERIALS	15			
STRAND 5	PROCESSES	25			
STRAND 6	TECHNOLOGY	5			
TOTAL		100			