

	STUE	ENT	EDUC	ATION	NUN	1BER	

Samoa Secondary Leaving 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.	11-13	25	15
STRAND 5	PROCESSES Demonstrate knowledge and understanding of the processes used when working with materials and tools in the workshop.	14-17	50	25
STRAND 6	TECHNOLOGY Demonstrate knowledge and understanding of the nature of technology and its effects on the lives of people.	18	5	5
	TOTAL		180	100

Check that this booklet contains pages 2-19 in the correct order and that none of these pages are blank.

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

FRAND 1	DESIGNING	WEIGHTING 25
. Identify ON I	E criteria use for evaluating a project.	
diagram below	illustrates a problem at home. Use the diagram to a	wer Questions 2 and 3.
	Source: https://www.google.com/search?sca_esv=da56b67854fd2398&sca_	nv=1&a=clothes+on+the+f
Ideal College	loor&tbm=isch&source=lnms&sa=X&ved=2ahUKEwjKt47pKEAxVJr1YBHau sOOnOJeaOIDBAB&hiw=1366&hih=633&dnr=1#imarc=Ys9NWzdGe8RiFM	
. Identify the	problem shown on the diagram above.	SL 1

SL 1

						SL 2
	erent idea of your		a different free	e hand sketch	for the	
uesign so	lution in Question	ı .				
						SL 2
List TWO spe	cifications for the	design solution	in Question 3.			
						SL

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(i) D	escribe the main purpose of an open design brief .		
			s
			3
			
(ii) D	escribe the main purpose of a close design brief.		
			S
			
			
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							SL
Evaluate th	e importance o	of the design _l	process in rela	tion to the p	roject outcor	me.	
Evaluate th	e importance o	of the design	process in rela	tion to the p	roject outcor	me.	SL
Evaluate th	e importance o	of the design	process in rela	tion to the p	roject outcor	me.	SL
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RAND 2	DRAWINGS	WEIGHTING 15
.0. Sket	ch a centre line used in technical drawing.	
		SL 1
L. List	TWO types of drawings in pictorial drawing.	
		SL 2
. List	the THREE types of scales used in drawing.	
		SL 2
3. (i) C	Compare a cabinet and cavalier drawing in your own word.	
		SL 3
		

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Drawing					
Discuss the nu	rnose of a sca	ale in relation t	o drawing		
Discuss the pu	rpose of a sca	ale in relation t	o drawing.		
Discuss the pu	rpose of a sca	ale in relation t	o drawing.		_
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Discuss the pu	rpose of a sca	ale in relation t	o drawing.		

STRAN	ID 3	TOOLS	WEIGHTING 15
15.	What are router bits use	ed for?	SL 1
16.	147.		SL 1
17.	Name the brand of the	given tool	7

18.

Describe the function of impelling tools.



SL 1

SL 2

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Explain clearly why	storage is requ	ired for tools.		
Explain clearly why	storage is requ	ired for tools.		s
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Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are c	commonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		SI
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Explain THREE reasons	why local timbers are o	commonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	commonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	commonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	commonly used by	carpenters.		SI
Explain THREE reasons	why local timbers are o	ommonly used by	carpenters.		SI

Differentiate the prope	ntiate the properties of local and overseas timber.					
				SI		
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(i)	Timber joint type A.	
``	A:	SL 1
(ii)	Timber joint type B.	
	B:	SL 1
(iii)	Timber joint type C.	
	C:	SL 1
Describe	the most important thing to remember in any workshop.	
		SL 2

31.	List two tools needed when cutting a dovetail joint.	_	
			SL 2
	a		
	b		
32.	Describe the meaning of good trade practices in the design and technology trade.		
J2.	Describe the meaning of good trade practices in the design and technology trade.		
		ſ	SL 2
		-	
33.			
	Identify why the good use of resources in any workshop is needed.		
			SL 2
			
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						SL 3
	nethod to use	when rippin	g a 20mm t	hickness ti	mber	
Explain the a using a skill s	method to use	when rippin	g a 20mm t	hickness ti	mber	SL
	nethod to use	when rippin	g a 20mm t	hickness ti	mber	SL
	method to use	when rippin	g a 20mm t	hickness ti	mber	SL
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	method to use	when rippin	g a 20mm t	hickness ti	mber	SL

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Differentiat	e the applica	tion of a wo	ood stain an	d wood var	rnish.		
Differentiat	e the applica	tion of a wo	ood stain an	d wood var	nish.		
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Differentiat	e the applica	tion of a wo	ood stain an	d wood var	rnish.		SL

STRAI	ND 6	TECHNOLOGY	WEIGHTING 5
38.	List TWO nowadays	construction technology when working with tim	ıber.
	1		SL 2
	2		
39.	Explain the process of	of timber conversion.	
			SL 3

STUDENT EDUCATION NUMBER									

SSLC DESIGN TECHNOLOGY

2024

(For Scorers only)

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