

NAME:

MINISTRY OF EDUCATION, HERITAGE & ARTS

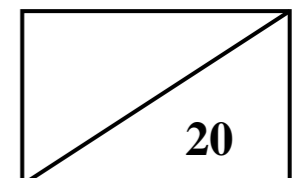
WORKSHEET 5 YEAR 10 2021

BASIC TECHNOLOGY & BASIC GRAPHIC TECHNOLOGY

STRAND 3: DESIGN AND ENTERPRISING

INSTRUCTIONS:

1. Use your exercise book to do the question given below.
2. Use the measurements given. All measurements are in millimeters
3. Show all your construction lines clearly.



NAME:

[20 marks]

LONG ANSWER QUESTIONS

[20 marks]

QUESTION 1 DESIGN

Problem

In many homes, kitchen utensils like knives are left on table tops which is a risk to children.

Brief

Design a **knife rack** that will store knives properly and safely.

Specifications

The following factors are to be taken into consideration when designing the **knife rack**.

- It must be strong.
- It must be secure and easy to construct.
- It should have provisions to store at least 4 knives safely.
- The materials to be used should be readily available and made from a combination of metal and timber.

Requirements

- (i) In the space provided below, sketch a pictorial pencil or colour rendered final solution of the **knife rack**. **(8 marks)**

CQ1(i)			
1	Correct proportion	2	
2	Correct materials	2	
3	Rendering shown	3	
4	Labels shown	1	

- (ii) Draw a detailed sketch to show how knives are stacked safely on the **knife rack** without falling off. **(8 marks)**

CQ1(ii)			
1	Correct proportion	3	
2	Evidence of being kept safely without falling shown	3	
3	Labels shown	2	

- (iii) Explain the final solution according to the following heading: **(4 marks)**

HEADING	FINAL SOLUTION
Materials	