

NAME:

MINISTRY OF EDUCATION, HERITAGE & ARTS

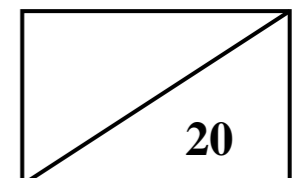
WORKSHEET 8 YEAR 10 2021

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: 

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[20 marks]

**LONG ANSWER QUESTIONS**

[20 marks]

**QUESTION 1 DESIGN**

**Problem**

In many homes, books are piled and scattered everywhere in the living room.

**Brief**

Design a **book rack** to accommodate books and are to be placed in the living room.

**Specifications**

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

- It must be strong.
- It must be secure and easy to construct.
- It should have two shelves for the books to be stacked and neatly arranged with spine facing the front.
- 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 **book rack**. **(8 marks)**

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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 books are stacked safely on the **book rack** without falling. **(8 marks)**

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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	