

SHEET 1
PENANG SANGAM HIGH SCHOOL

YEAR 10

BASIC TECHNOLOGY

WORKSHEET – 6

QUESTION 1

PART A

MATCHING

Match the terms in **List A** with the correct descriptions in **List B**. Write the letter representing the term in the box beside the matching description. Sample A is already done for you. Do not write a letter twice.

List A		
(A) entrepreneur	(B) dowelled	(C) form
(D) good conductor	(E) emphasis	(F) sliding bevel
(G) connector		

List B		Answer
<u>Example</u>	A person that owns a business	A
1	Principle of Design	
2	Can be set at different angles	
3	A property of metals	
4	Joining two pipes together	
5	A type of widening joint	

PART B

The faces on the orthographic view of a given multi-shaped block are indicated by letters in **Figure 2**.

Write the correct letters in the circles in **Figure 1** to match their corresponding faces in **Figure 2**.

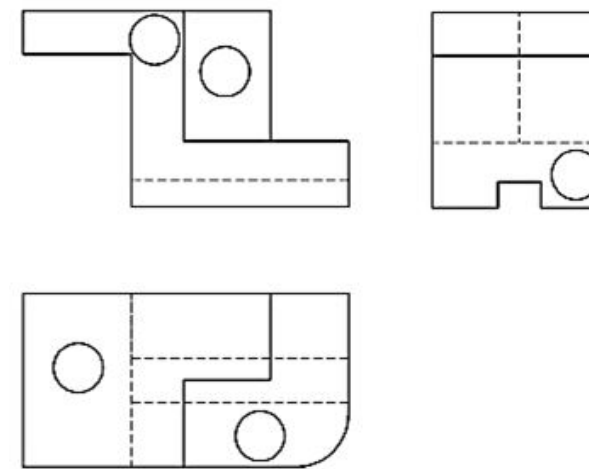


Figure 1

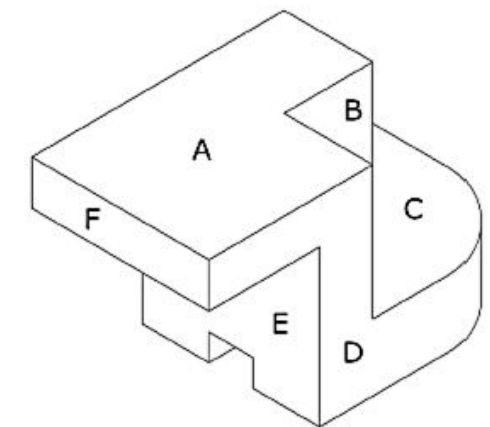


Figure 2

QUESTION 2

DESIGN

Problem

In many homes, it is a common sight to see medication kept in drawers, hand bags and other areas that are easily accessible to children which could be risky.

Brief

Design a **first aid kit** that will eliminate the risks involved.

Specifications

The following factors are to be taken into consideration when designing the **first aid kit**.

- It must be secure and easy to construct.
- It must be strong and kept out of children’s reach.
- It should have provisions for safe storage of medications.
- The materials to be used for the construction should be readily available and made from a combination of metal and timber.

Requirements

- i. In the space provided below, sketch a pictorial pencil/colour rendered final solution of the **first aid kit**.

CQI(i)			
1	Correct proportion	½	
2	Correct line work	1	
3	Accuracy	1	
4	Rendering shown	1	
5	Labels shown	½	

- (iii) Explain the final solution according to the following heading: **(2 marks)**

HEADING	FINAL SOLUTION
Safety	

- (ii) Draw a detailed sketch to show how the **first aid kit** items will be kept safe and secured and state **one** hardware used in the design. **(4 marks)**

CQI(ii)			
1	Correct proportion	1	
2	Correct line work	1	
3	Evidence of being kept safe and secured shown	½	
4	Neatness	½	

(3 marks)

Hardware: _____ **(1 mark)**