SHEET 1

PENANG SANGAM HIGH SCHOOL

P.O.BOX 44, RAKIRAKI

WEEK 12 WORKSHEET

Subject: Technical Drawing

Year/Level: 12

Strand	TD 12.3 APPLIED DRAWING			
Sub Strand	TD 12.3.1 ORTHOGRAPHIC PROJECTION			
Content Learning Outcome	TD 12.3.1.1 Develop and draw simple electrical plans and assembled			
	engineering sectional drawings.			

LESSON NOTES

ELECTRICAL SYMBOLS

OUTCOME

By the end of this topic, students will:

- a) Identify and use electrical and building symbols and standards in electrical drawings.
- b) Draw an electrical plan and insert the correct electrical and building symbols at the appropriate locations.

INTRODUCTION

An electronic symbol is a pictogram used to represent various electrical and electronic devices (such as wires, batteries, resistors, and transistors) in a schematic diagram of an electrical or electronic circuit. These symbols can (because of remaining traditions) vary from country to country, but are used today to a large extent and internationally standardized. Some symbols represent components (such as vacuum tubes) which ceased to be used routinely as newer technologies were introduced.

ELECTRICAL SYMBOLS

Name	Symbol	Name	Symbol
One way switch	6	Switch - with dimmer	8
Twoway switch	\p^	Switch - intermediate	500
Socket outlet		Switch - push button	
Switch socket outlet	<u> </u>	Ceiling mounted light	X
Window - In cavity wall		Wall mounted light	\times
Door - Swing single		Fluorescent lamp - general	<u> </u>
Door - Swing double		Spot light	\otimes
Door - Sliding into pocket	=======================================	Flood light	

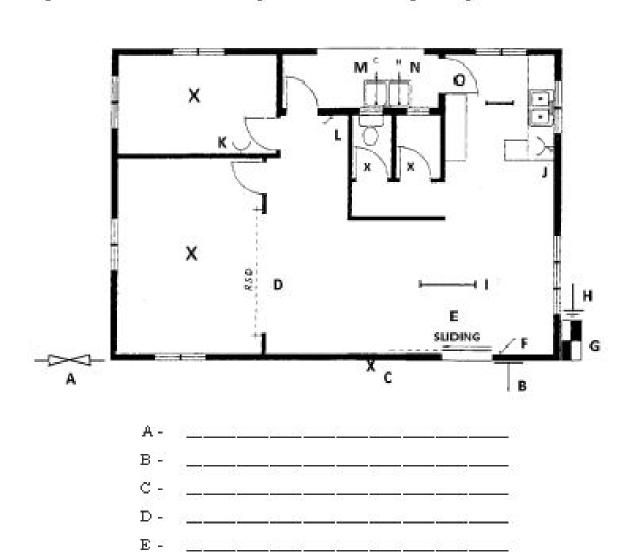
Door - Sliding exposed on wall	=======================================	Distribution board	
Point of entry		Earth	
Sawn timber		Dressed timber	
Timber break		Insulation	
Concrete		Hardcore fill	

STUDENT ACTIVITY

SANGAM EDUCATION BOARD - ONLINE RESOURCES

SHEET 2

Given: The Floor Plan of Balak's building with various symbols on it. Each symbol is denoted by a letter from **A** to **O**. Required: Name each symbol in the space provided.



F = ______

G - ______

J- ______

K - .____

M- ____

N - ______

THE END

Given: An incomplete Electrical Plan of Mr **Ram's** House.

Required: a) Insert the following symbols:

- i) One Illuminating lamp in the kitchen.
- ii) One way switch on the kitchen wall.
- iii) Two way switch on the Bedroom wall.
- iv) One Fluorescent lamp in Bedroom 1.
- v) Single door in Bedroom 2.
- vi) Sliding Exterior Door.
 - b) Label the following symbols:
- i) Distribution Board.
- ii) Socket outlet with a switch.
- iii) Socket outlet without a switch.

