

General Safety

Name -
Class -
Roll number -

Introduction

Introduction to Different types of faults, Data sheet of electrical devices and its rating plates, Trouble shooting and diagnostics technique and Circuit wiring

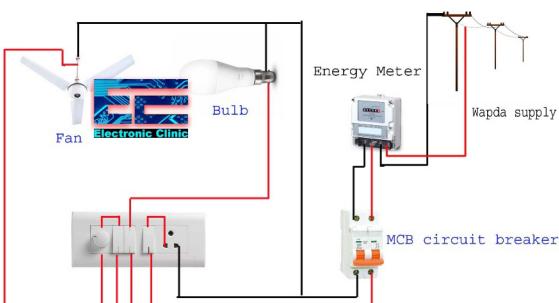
What is a meaning of Fault?

Why do we need trouble shooting?

What are the main problems of battery and circuit wiring?



Look at the house wiring and try to make it in your work sheet. Use the template for understanding circuit and wiring, also show the battery of your car / bike and note down power rating.



Lesson aims -



1. To understand different characteristics of electrical devices
2. To know the types of faults and its remedies
3. To create electrical circuits wiring and its component

Space for Notes -



Space for rough work

Activity 1

What is an Electrical Circuit ?

An electric circuit includes a device that gives energy to the charged particles constituting the current, such as a battery or a generator; devices that use current, such as lamps, electric motors, or computers; and the connecting wires or transmission lines.

Draw an electric circuit -

Activity 2

What is Electrical Wiring?

Methods of Electrical Wiring Systems w.r.t Taking Connection

Joint Box or Tee or Jointing System



Loop-in or Looping System



Different Types of Electrical Wiring Systems

Cleat Wiring



Lead Sheathed Wiring



Batten Wiring (CTS or TRS)



Casing and Capping wiring



Conduit Wiring

Concealed Conduit wiring



Surface Conduit Wiring



Space for notes -

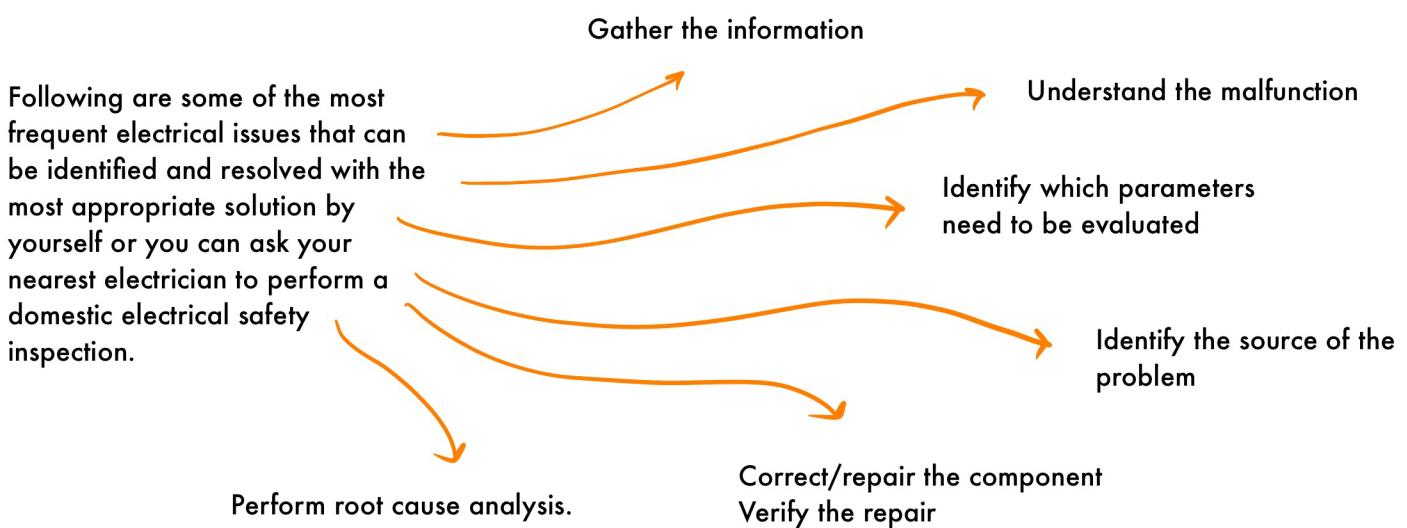


Types of Electrical Fault

Safety is of the utmost importance when it comes to electrical faults, whether it is a flickering tube light, over-the-top electricity bills, power surges or damage to electronic appliances due to water or rain, or other reasons.



What are the signs of an electrical problem in your home circuit ?



Space for notes -

Space for notes -

Reflection

- 1) What an electrical fault actually means?
- 2) What are the Types of Electrical Faults in Domestic System?
- 3) What are the different battery problems?
- 4) What you know about short circuit?

Space for notes -



For more information scan
the qr code

