

will pass through you into the ground (0 V p.d.). A live wire is still a shock risk even if switch is open.

Knowledge required from previous topic

resistance

The amount an object reduces the current. Measured in ohms $\left(\Omega\right)$

difference

transferred

Store of chemical energy Two or more cells batterv Only allows current to diode flow one way Fixed resistance reduces resistor current Changeable resistance reduces current **Emits light LED Emits light** lamp Breaks circuit when fuse current too high Measures potential voltmeter difference Measures current ammeter Resistance decreases as thermistor temperature increases Resistance decreases as LDR light intensity increases The number of electrons. Measured in charge coulombs (C) Flow of charge (the speed of electrons). current Measured in amps (A) Energy per electron. potential Measured in volts (V) difference

Breaks circuit; stopping

Completes circuit; allows

the current

current to flow

