## **AMPERES**

## CURRENT ELECTRICITY

P	Electric current is the Measures how many	flow ofelectrons pass a point in a c	onductor in 1 secon	nd.
	The move.	the current, the	the	e electrons
Curren	nt is measured in	(amps) or r	nilliamps by a devi	ice called an

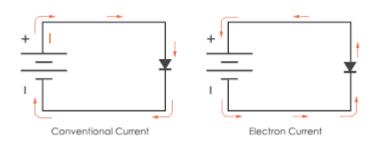
1 ampere = 1 coulomb of charge per second coulomb =  $6.24 \times 10^{18}$  electrons (named after Charles Coulomb)



\* 1 Amp (A) = 1000 milliamps (mA)

## **ELECTRIC CURRENT**

- Originally people thought that electricity was caused by the flow of fluid from the "+" to the "-" terminals. This direction is called \_\_\_\_\_\_.
- We now know that electricity is caused by the flow of electrons from the "-" to the "+" terminals. This direction is called \_\_\_\_\_\_\_.



<ul> <li>Direct of</li> </ul>	<b>current (DC) –</b> current flows in		
i	e. from a cell		
	ting current (AC) - electrons _ e. through an electric outlet	direction.	
In North A	merican the current reverses d	irections 60 times a second (60 Hertz, with 120 V)	
<ul> <li>China - 220 V, 50 Hz</li> <li>United Kingdom -230, 50 Hz</li> <li>Taiwan - 110 V, 60Hz</li> </ul>			
CONDUCTIV	TITY:		
Electric Currer	_	ICE = the ability of a material to allow	
The material.	depends of	on how <b>easily</b> electrons can flow through a	
(a) CONDUCTORS		(b) INSULATORS	
(electrons mov	ve easily)	(electrons cannot move easily)	
SCHEMATIC	DIAGRAMS:		
OBJECT	SYMBOL	NOTES	
Ammeter			