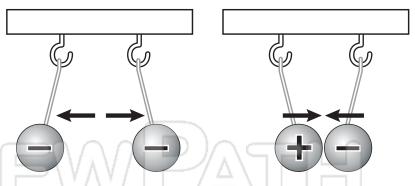


Name _____ Date _____

Atoms are made of positively charged protons, negatively charged electrons and neutrons which carry no charge. Objects with like charges repel each other, while objects with opposite charges attract each other.



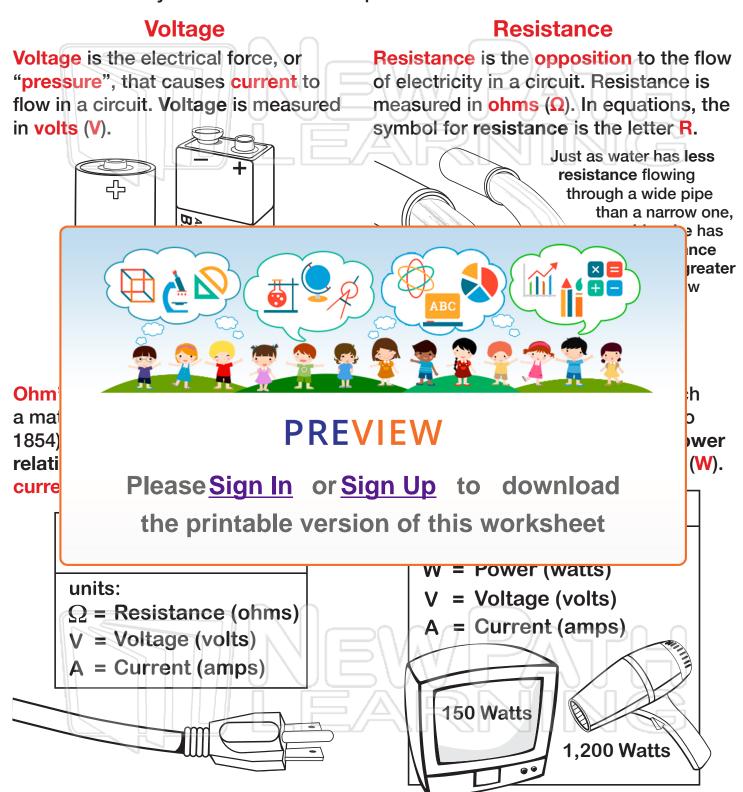
A flow of electric charges is called electric current. The rate of electric current, expressed in amps (A), measures the amount of charges that flow through a material past a given point per second. There are two kinds of electric current – Alternating Current (AC) and Direct Current (DC).





N 1	O I	D (
Name	Class	Date

The rate of electric current, expressed in amps (A), measures the amount of charges that flow through a material past a given point per second. The letter I is used as the symbol for current in equations.





Name	Class	Date
Fill ir	the blanks.	
A flow of electric charges is called		
The rate of	, exp	pressed in,
measures the amount of given point per second.	that	flow through a material past a
The charges in	The ch	arges in
flo	ABC	n.
PRI	EVIEW	
Please Sign In or the printable ver		
A circuit has only one path for electric current to flow through all the circuit components. If any of the bulbs fail, the others will	ow. Current circuit h	as at least two independent flow. If any of the bulbs fail,



Name	Class	Date
Fill in the blanks. Use the e	quations to a	nswer the questions.
The rate of electric current, express amount of charges that flow through the letter I is used as the symbol for	gh a material p	ast a given point per second.
is the electr	rical force, or	"pressure", that causes
current to flow in a circuit.	SVV.	$_$ is measured in volts (V).
Resistance is the	to the fl	ow of electricity in a circuit.
Resistance is measured in	(<mark>Ω</mark>). In	equations, the symbol for
	EVIEW	er (W).
Calcı Please Sign In or	Sign Up t	o download
the printable ver	sion of this	s worksheet
A 55 watt bulb is plugged into a 11 the amperes being used by the light		al outlet. Calculate
An electric toaster is using 2 ampera 110-volt electrical socket. What toaster?	_ / _ / <	
W		



Answer Key

Fill in the blanks.

A flow of electric charges is called	electric current
The rate ofelectric current	, expressed inamps (A),
measures the amount of charges given point per second.	that flow through a material past a
The charges in	The charges in
Alternating	<u>Direct</u>
flo co	ABC NO.
PREVI	EW
Please <u>Sign In</u> or <u>Sign</u> the printable version	
A series circuit has only one path for electric current to flow.	Current in a parallel
The current must flow through all the circuit components. If any of the bulbs	circuit has at least two independent paths to flow. If any of the bulbs fail, the others will



Answer Key

Fill in the blanks. Use the equations to answer the questions.

The rate of electric current , expressed inamps (A), measures the amount of charges that flow through a material past a given point per second. The letter I is used as the symbol for current in equations.
Voltage is the electrical force, or "pressure", that causes current to flow in a circuit. Voltage is measured in volts (V).
Resistance is theopposition to the flow of electricity in a circuit.
Resistance is measured inohms (Ω) . In equations, the symbol for resistance is the letter R.
betw
Elect er
forms (W).
PREVIEW
Calcu Please Sign In or Sign Up to download
the printable version of this worksheet
A wa
A 55 watt bulb is plugged into a 110-volt electrical outlet. Calculate the amperes being used by the lightbulb. 0.5 A
An electric toaster is using 2 amperes and is plugged into a 110-volt electrical socket. What is the wattage of the toaster?