Student Activity Sheet 1-3

Ohm's Law Practice

Date			Class/Period	l/Instructor_		34			
challenge	of this exercis		liar with how volta	ige, current, or	resistance c	simple to solve. The an be solved for where			
	$E = I \times R$ $R = E/I$ $I = E/R$	Used to find voltage (E) when current (I) and resistance (R) are known. Used to find resistance (R) when voltage (E) and current (I) are known. Used to find current (I) when voltage (E) and resistance (R) are known.							
1	volts	2 amperes	5 ohms		•				
2	ohms	6 volts	3 amps						
3	amps	12 volts	2 ohms		· · ·				
4	ohms	12 volts	5 amps						
5	volts	5 amps	10 ohms						
6	amps	10 ohms	24 volts			en e			
7	ohms	5 amps	6 volts	•					
8	volts	0.25 amps	12 ohms						
9	_ ohms	1.5 amps	6 volts						
10	_ amps	100 ohms	12 volts						
11	volts	25 ohms	3 amps						
12	_ volts	0.06 amps	1200 ohms						
13	_ volts	0.01 amps	122 ohms						
14	_ ohms	0.005 amps	6 volts		• •				
15	volts	1800 ohms	0.05 amps						
16	_ volts	1400 ohms	0.007 amps						
17	_ amps	18 volts	3600 ohms						
.18	amps	24 volts	600 ohms						
19		12 volts	1200 ohms						

2 amps

__ volts

16 ohms

Student Activity Sheet 1-4

Common Electrical Terms and Symbols

Name_		<u> </u>	·	·				
Date			Class/F		<u> </u>			
theory.	his exercise, you will This exercise also pro s are used to describe	ovides you with	more praction	nmon terms ce using Oh	and symbols a m's law. The f	ssociated with ollowing elec	basic electrical trical terms and	
	Voltage Current Resistance	E , V, volts, electrical pressure, electro I , A, amperes, amps, electron flow R , Ω , ohms			romotive force	motive force (emf), potential		
	ate the terms and synd on the previous Stu				known values:	Formulas for	Ohm's law can	
1	volts	3 Ω	5	Α				
2	Ω	12 E	6	A	•			
3	A	6 emf	24	Ω				
4.	potential	20 R	2	Α			•	
5	resistance	0.25 A	12	V · -			•	
6	amperes	100 Ω	24	E	\$ 		•	
7	. E	1000 Ω	0.01	Α			. •	
8	ohms	18 V	0.025	amperes	*			
9	V	2200 Ω	0.05	I				
10. 🖳	<i>I</i>	6 volts	100	ohms				