Scien	ce 10F	Current Elec	ctricity Mid-Poir	nt Worksheet Nai	me:
		S to answer th th units for fu		the space below. S	how ALL work
Part /	A: Theory of	Electricity			
			ove" is called		
2.	The particles	that are flowi	ng in current ele	ctricity are called	·
3.	Define what	a circuit is:			
4	Fill in the cou	rect symbols a	and units:		
•		me	Symbol	Unit	Unit Symbol
	Current				
	Charge				
	Time				
	Potential [Difference			
	Energy				
	Resistanc	е			
5.		e term <i>Electr</i>			
			to measure curi		
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- 6. a. Define the term *Potential Difference*.
 - d. Name the device used to measure potential difference.

7	Cells	and	hatte	ries.
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a.	What	is a	cell?
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- b. How is a cell different from a battery?
- c. What are the parts of a cell?
- 8. We have studied 5 different **sources** of **potential difference**. Fill in the table with respect to these sources.

Method	How it Works	Example
Chemical		
Thermal		
Piezoelectric		
Photoelectric		

9. Define the term *electrical resistance*. What causes resistance?

Part B: Electrical Calculations (Mixed)
Remember to show your formula, substitution/work, answer & units!!!!!!!!!!!

1.	If you send 30 C of charge through a wire in 45 seconds, how much current is this?
2.	If the resistance of a speaker is 8 Ω , and it has 13 amps of current passing through it, how much potential difference is there?
3.	If electrons in a circuit have 300J of energy, and the potential difference is 9 volts, how much charge is in the circuit?
4.	You are setting up an electric fence. The fence requires 0.5 A of current. On average a cow would touch the fence for about 3s. How much charge would go into the cow?

5.	Find the resistance of a circuit that has an energy of 1240 J, a 17 C of charge, and 0.64 A of current. (Hint: you may need more than one formula)
6.	The human body has a resistance of about 1000 Ω . If you stuck your fingers into an outlet (120V) How much current would you receive?
7.	How many dry cells would you need to run a cordless drill that requires 900 J of energy, and 50 C of charge.