Electronics Worksheet

- 1. What are the three required parts of any circuit? Give one specific example of each.
 - a.
 - b.
 - c.
- 2. 1 Amp = 6.24×10^{-9} electrons move through a wire every second.
- 3. What is the equation for Ohm's law? $\bigvee = I \times R$
- 4. Prefixes.

Nano (n)	Micro (µ)	Milli (m)	Kilo (k)	Mega (M)	Giga (G)	
10-9	10-6	10-3	1000	106	109	

5. Fill in the table.

Component	Schematic Symbol	What it does?			
Fixed Resistor		. Resistance cottons In.) . Tolerance (10 of nominal Power ruting (watts)			
LDR		. Light Department Resistor . The resistance changes as intensity of light changes.			
Capacitor (polarized)	1	· Capacitors store charge · Pass nigh frequency and BI · One end is tone is			
Capacitor (non-polarized)		· capacitors store charge · pass high frequency and b · boes not have a positive or regutive port			
Diode		Some give out inght CLEO).			
LED		· Light emitting blodes · Type of diodes designed to em			
Ground		HOD WELL ADD. OLG MATKING			
		by returning to "+" side of			

6. Write down the colour code values below from 0 to 9. " standing" Fiber of election Tolerances are: Gold = 5%; Silver = 10%; No fourth band = 20%.

0.1

601

0	1	2	3	4	5	6	7	8	9
Black	Brown	Red	orange	Yellow	Green	Blue	Violet	Gray	write