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voltage is the difference in charge between two points current is the rate at which charge is flowing resistance is a material's tendency to resist the flow of charge current voltage and current are the cornerstone concepts in electricity we will create our first mental models for these basic electrical quantities we will also talk about power which is what happens when voltage and current act together by knowing any two values of the voltage current or resistance quantities we can use ohms law to find the third missing value ohms law is used extensively in electronics formulas and calculations so it is very important to understand and accurately remember these formulas defined in the context of static electricity voltage is the measure of work required to move a unit charge from one location to another against the force which tries to keep electric charges balanced understanding the interplay between resistance voltage and current allows engineers to predict and control the behavior of electrical circuits ensuring the efficient and safe operation of electronic components electric potential difference also known as voltage is the external work needed to bring a charge from one location to another location in an electric field electric potential difference is the change of potential energy experienced by a test charge that has a value of 1

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