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electricity basics when beginning to explore the world of electricity and electronics it is vital to start by understanding the basics of voltage current and resistance these are the three basic building blocks required to manipulate and utilize electricity at first these concepts can be difficult to understand because we cannot see them

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fundamentals of electricity 1 in general are objects charged or neutral why is that 2 where do you see static electricity 3 what are good conductors what are good insulators 4 what decides which conductor you should use 25 w e s t e r n e l e c t r i c i t y c o o r d i n a t i n g c o u n c i l

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written by willy mcallister 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 charge the concept of electricity arises from an observation of nature

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measured in amperes a current is a fundamental concept in understanding the dynamic behavior of electricity the flow of electrons is driven by the electric potential difference or voltage which propels them from areas of higher potential to lower potential

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basic electrical theory there are four basic electrical quantities that we need to know current potential difference voltage power resistance electrical current current is a flow of charge each electron carries a charge of 1.6×10^{-19} coulombs

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become familiar with engineering numbers and notation and learn about the two most important electrical quantities current and voltage a summary of the math and science preparation that will help you have the best experience with electrical engineering taught on khan academy

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to understand the fundamentals of electricity we need to begin by focusing in on atoms one of the basic building blocks of life and matter atoms exist in over a hundred different forms as chemical elements like hydrogen carbon oxygen and copper

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the most fundamental law in electricity is ohm s law or $v = ir$ the v is for voltage which means the potential difference between two charges in other words it is a measurement of the work required to move a unit charge between two points

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from its beginnings in the late nineteenth century electrical engineering has blossomed from focusing on electrical circuits for power telegraphy and telephony to focusing on a much broader range of disciplines however the underlying themes are relevant today powercreation and transmission and information

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in this video we learn how electricity works starting from the basics of the free electron in the atom through conductors voltage current resistors led

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understand the behavior of electric circuits using ohm s law relate the three main parameters of an electric circuit the voltage the electric current and the electrical resistance realize how the above three parameters are used to compute circuit characteristics and conditions

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fundamentals of electricity we will start with an overview to introduce you to the main points about these devices and the parts that make them then we will step through each of these topics in detail section title page number introduction to electricity 3 characteristics 3 current 4 voltage 5 resistance 6 review 1 9

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the basic principles of electricity electricity simply put is the flow of electric current along a conductor this electric current takes the form of free electrons that transfer from one atom to the next thus the more free electrons a material has the better it conducts

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a typical household electrical outlet is 15 amps abbreviated 15 a and finally we know that electricity can be very dangerous but what is electricity really let s start with three very basic concepts of electricity namely electric charge electric current and electric circuit

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electricity is defined as the collection of phenomena associated with the presence of electrically charged particles these particles can either be static representing an accumulation of charge or flowing as an electric current electric charge there are two types of electric charge positive and negative

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