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Thank you for your participation! The analogy: what is wrong with the use of oversized water pipes in the municipal water system? Nothing, perhaps, after the system was put in place. However, what about the cost of building the system? Notes: The bad effects of oversized wiring are harder to discern than the bad effects of oversized wiring. With oversized wiring, there is little electrical inefficiency, but that doesn't mean that the system is inefficient in other ways! The cost of the transaction itself, of course, is obvious, but there are other costs. Brainstorm ideas with your students about the cost of inefficiency of insized wiring in the electrical system. If you see this message, it means that we are having trouble downloading external resources on our site. If you're behind a web filter, please make sure the domains no.kastatic.org and no.kasandbox.org are unlocked. Thank you for your participation! The analogy: what is wrong with the use of oversized water pipes in the municipal water system? Nothing, perhaps, after the system was put in place. However, what about the cost of building the system? Notes: The bad effects of oversized wiring are harder to discern than the bad effects of oversized wiring. With oversized wiring, there is little electrical inefficiency, but that doesn't mean that the system is inefficient in other ways! The cost of the transaction itself, of course, is obvious, but there are other costs. Brainstorm ideas with your students about the cost of inefficiency of insized wiring in the electrical system. If you see this message, it means that we are having trouble downloading external resources on our site. If you're behind a web filter, please make sure the domains no.kastatic.org and no.kasandbox.org are unlocked. The analogy: what is wrong with the use of oversized water pipes in the municipal water system? Nothing, perhaps, after the system was put in place. However, what about the cost of building the system? Notes: The bad effects of oversized wiring are harder to discern than the bad effects of oversized wiring. With oversized wiring, there is little electrical inefficiency, but that doesn't mean that the system is inefficient in other ways! The cost of the transaction itself, of course, is obvious, but there are other costs. Brainstorm ideas with your students about the cost of inefficiency of insized wiring in the electrical system. Insulators vs. Conductors - Displaying the top 8 sheets found for this concept. Some of the sheets for this concept are insulators and conductors, conductors and insulators, conductors and insulators, electricity and magnetism conductors insulators, conductors of semiconductors and work insulators, conductors of insulators answer the key, heat insulators and conductors, Electricity Found the sheet you're looking for? Download/print download/print on a pop-up icon or print icon on a print or download sheet. The sheet will open in a new window. You can download or print using browser document readers. In order to continue to use our website, we ask you to confirm your identity as a person. Thank you so much for your cooperation. What is the ROBLOX password on roblox? When asked by Wiki User, does Jerry Seinfeld have Parkinson's disease? The question of a Wiki user is if you are 13 years old when you were born? Answering a question by a Wiki user What is a hink pink 50 percent giggle? When asked by Wiki User What is hink-pink for blue green moray eels? The question of the user Wiki Who is the user roblox 100,000,000? Answering the question of the Wiki user How much does the \$100 roblox gift card to you in roblox? Answering the question of Wiki user Ano ang pinakamaliit on kontinente sa mundo? To the question of the user Wiki Compare and oppose insulators and conductors? 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Electrical conductivity depends on the movement of electrons, because protons and neutrons do not move - they are associated with other protons and neutrons in atomic nuclei. Valenza's electrons are similar to the outer planets orbiting the star. They attract enough to their atoms to stay in position, but it doesn't always take a lot of energy to dislodge them from the place-these electrons easily carry electric currents. Inorganic substances, such as metals and plasmas, which easily lose and acquire electrons, are at the top of the list of conductors. Organic molecules are mostly insulators because they are held together by covalent (common electrons) bonds and because hydrogen bonds help stabilize many molecules. Most materials are neither good conductors nor good insulators, but somewhere in between. They are not easy to conduct, but if enough energy is supplied, the electrons will move. Some in its purest form are insulators, but will hold if they dope with a small amount of other element or if they contain impurities. For example, most ceramics are excellent insulators, but if you dope them, you can create a superconductor. Clean water is an insulator, dirty water behaves weakly, and salt water - with its free-floating ion ion The best electric conductor, in normal temperature and pressure, is the metal element of silver. Silver is not always an ideal choice as a material, however, because it is expensive and susceptible to denigration, and the oxide layer known as the denigrate is not conductive. Similarly, rust, verdigris and other layers of oxide reduce conductivity even in the strongest conductors. The most effective electric conductors are: SilverGoldCopperAluminumMercurySteelIronSeawaterConcreteMercury Other strong conductors include: PlatinumBrassBronzeGraphiteDirty waterLemon juice Electrical charges do not flow freely through insulators. This is an ideal quality in many cases - strong insulators are often used to cover or provide a barrier between conductors to keep electrical currents under control. This can be seen in rubber wires and cables. The most effective electrical insulators are: RubberGlassPure waterOilAirDiamondDry woodDry cottonPlasticAsphalt Other strong insulators include: FiberglassDry paperPorcelainCeramicsquartz Shape and the size of the material affect its conductivity. For example, a thick piece of substance would behave better than a thin piece of the same size and length. If you have two pieces of material of the same thickness, but one is shorter than the other, the shorter one will hold the better, because the shorter piece has less resistance, in much the same way that it is easier to force water through a short pipe than a long one. Temperature also affects conductivity. As the temperature rises, atoms and their electrons receive energy. Some insulators are like glass-poor conductors when cool but good conductors when it's hot; Most metals are better conductors when cool and less efficient conductors when it's hot. Some good conductors become superconductors at very low temperatures. Sometimes the conduct itself changes the temperature of the material. Electrons pass through conductors without damaging atoms or causing wear and tear. Moving electrons experience resistance, however. Because of this, the flow of electric current can heat conductive materials. Materials.

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