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# Electrical conductor and insulator worksheet

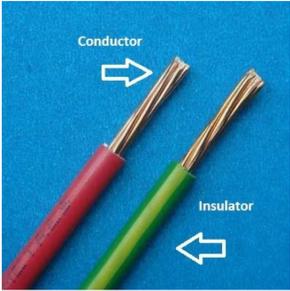
Science 4  
Electricity & Magnetism



Name: \_\_\_\_\_  
Date: \_\_\_\_\_

**Conductor or Insulator**  
Directions: Please decide if the following materials would make a good conductor or a good insulator. Please fill out the prediction column before performing tests.

Material	Prediction Conductor or Insulator	Conductor or Insulator
Alloy		
Pure Water		
Salt Water		
Copper		
Glass		
Wood		
Graphite		
Aluminum		
Plastic		



Electricity 101: Conductor and Insulator

Conductor	Insulator
This is a material that allows electricity to flow through it.	This is a material that does not allow electricity to flow through it.
Examples: metal, water, graphite, alloy	Examples: wood, plastic, rubber, glass

## Electrical Conductors and Insulators Puzzles

\*Contains 16 puzzles

Log

Material: Wood

Insulator

Paper Clip

Material: Steel

Conductor

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# CONDUCTORS VS. INSULATORS

## Conductors and Insulators

Cut and glue the pictures below under the correct column.

Conductors		Insulators	

A higher Siemens score indicates good conductivity. Answer key included. Words included (19 words): battery, bulb, charge, circuit, closed, conductor, current, electricity, electron, insulator, negative, neutron, open, parallel, positive, proton. Electrical Energy Worksheet by Short explanation of electrical energy, electrons, conductors, insulators and questions. Unscramble words to reveal eight methods of generating electricity. Complete missing words on Electrical safety. Crossword. Worksheet can be printed in letter format (8.5 x 11) but is best printed as tabloid (11 x 17). Subjects: Page 4A versatile loop game that can be used for revision, as part of a center, in small groups or whole class. These free-flowing valence electrons act as carriers of electricity, allowing the metal to conduct electrical charges throughout its structure with little resistance. How Valence Electrons Conduct Electricity All elements are made of atoms, which are neutral particles with a nucleus at the center and with negatively charged nucleus that are randomly orbiting around it. The following 24 words and their definitions make up the game: atom, battery, circuit, conductor, electrical current, electromotive force, filament, generator, insulator, light bulb, matter, orb. Page 5 This is a 120 slide PowerPoint Review Game about matter, states of matter, phase change, chemical changes, and types of chemical reactions that concludes Part 1 of my Matter, Energy, and the Environment Unit that I offer on TpT. Because of the high cost of silver, however, its use in electrical equipment is limited, being used almost exclusively for sensitive equipment such as satellites and high-end circuit boards. The energy that was imparted to the cue ball will carry on to the next balls in line with efficiency. When calculating for conductivity, the variable Siemens is represented by the Greek symbol sigma ( $\sigma$ ), while the resistivity variable is represented by the Greek symbol rho ( $\rho$ ). Resistivity is the exact opposite of conductivity, and it evaluates how strongly an element resists the flow of an electric charge. Matter, Energy, and the Environment Unit Also included are hundreds of Lukasz Klepaczewski/Pixabay Metals are good conductors of electricity because of their atomic structure that allows electric charges to pass through freely. They would draw a picture(s) of an insulator and then circle examples of insulators. Due to its high cost, however, gold is used sparingly in electrical equipment. They would repeat Page 2 Work in Progress!! This worksheet provides a wide range of understanding of conductors, insulators, and circuits. These electrons move randomly when there is no electrical field present. Imagine a billiard table with the balls all in a line. Valence electrons are completely detached from the nucleus and moves freely. Conductivity vs. Resistivity The conduction in metals is measured via its conductivity and resistivity. The unit for measuring electrical conductivity is called Siemens. Its lower production cost and abundance make copper the preferred metal when a large quantity of conductive material is needed for electrical applications. Silver Among all the metals, silver is the best conductor of electricity because it has the highest number of valence electrons. Insulators and conductors worksheet by This worksheet allows students to show their learning on insulators and conductors. Since gold does not corrode or tarnish, it helps extend the life of circuit boards and electrical connectors. Gold Ranking third in conductivity and low resistivity, gold is also used for various electrical applications. Metallic elements have one, two or three electrons that are orbiting around the nucleus called valence electrons. It is used primarily as plating for circuitry and for small electrical connections. MORE FROM REFERENCE.COM In the first box they would give a definition like insulators do not allow electrical current to pass through them. The atomic structure of metals is unique because of the presence of one, two or three valence electrons in the outer orbit of the atoms, and this is true for all metallic elements. There are three other similar quizzes leading up to this quiz. Once an electrical field is applied to the metal, the valence electrons line up from one end to the other end of the metal, relaying the electrical charge from one electron to the other. It ranks the highest in both conductivity and low resistivity. Students who have basic understanding of a battery, a cell, materials used in a circuit, and enjoy diving in to concepts, will love this. 29 questions- one word answers, true/false, multiple choice This gem is an 18 question, fill-in-the-blank, vocabulary quiz. More than fall in a straight line, valence electrons also have a strong repelling reaction, which means that they transfer the electric charge onto the next electron with little to no loss of energy. Quiz 1- State of Matter Quiz 2- Physical Properties: Density, Mass, Magnetism Quiz 3- Solubility, Conductor, Density This quiz is part of a vocabulary unit available! This fun Electricity Word Search by Exploring and experimenting with all things electricity? In the same vein, lower resistivity score is likewise indicative of good conductivity. Copper With electrical conductivity and low resistivity ranking next only to silver, copper is the most widely used conductor in a wide range of electrical equipment. Have your students work individually or in pairs to explore electricity vocabulary. However, if the cue ball hits balls that are scattered about randomly, the energy that was imparted to it will quickly dissipate.

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