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Conductor or Insulator

K	A	F	R	U	B	B	E	R	R	Z	D	O	T	P
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C	C	O	P	P	E	R	C	O	N	C	R	E	T	E
F	U	E	K	L	M	Y	G	K	E	Y	F	B	F	C

paper iron wood copper plastic
pencil lead glass gold silver aluminum
nickel lead steel cardboard dirty water
cotton rubber slate wool concrete

Conducting electricity

Background knowledge
Matter that allows electricity to pass through it easily is called an *electrical conductor*. Electricity passes through a conductor to turn on a TV or computer, for example. Metals can conduct electricity, but some are better conductors than others. Solutions that have dissolved charged particles in them can also conduct electricity.

Science activity
An electrical circuit was set up to test the conductivity of different types of matter. A bulb was placed in the circuit. If the matter conducted electricity, the bulb lit up.

Material tested	Status of bulb
gold	very bright
copper	bright
plastic	not lit
wood	not lit
graphite	fairly bright
lead	fairly bright
paper	not lit
soft water	bright
distilled water	not lit

What factor was used to determine the conductivity of the matter?

Which sample(s) of matter are the best conductors?

What types of matter are the best conductors of electricity?















Why do you think soft water can light the bulb but distilled water cannot?

Science investigation

1 Take extra care - ask an adult to supervise you.
Build your own circuit using a 6 volt battery as your source of electricity and a lead light bulb. Test other types of matter for conductivity. Create a data table to record your observations.



Practice with Insulators and Conductors

Directions: Sort each of the pictures shown. Decide if it is an insulator or a conductor. Then write the name of the object in the correct column below.

Heat conductors and insulators worksheet.

Would repeat with drivers. Drivers and insulators who use the funny leaf of drivers and insulators to keep their students compromised. If you want an editable version, send me an email to blanks@selmausd.org and will be delighted to share. Then, make photocopies of the blank working sheets so that the students are completed on their own. Before downloading, keep in mind that this resource is available on Google slides or as PDF. Expand this work sheet of insulators and drivers to obtain additional learning, we have some other ideas about how you can use this download to help your students understand drivers, insulators and energy. A response key to the work sheet of the insulators and conductors with this download is also included. Then, students have to explain why the examples shown are good insulators (all have caught the air in them). Heating/Output Activity Project this work sheet on your smart board or other devices so that the class is seen. It also includes an interactive exit tickets of five questions in which students answer, b or c to each question for a hand sample or a card. The last update on December 15, 2012, this is a worksheet that can be used after students have analyzed materials that are good at the same time. RESULTS TABLE AND SECTION OF CONCLUSION PROVIDED. You can use this driver and insulatory work sheet for a game of drivers and insulators! Allow students to order objects and verify between sã to understand. This resource was created by Colleen Burke, a teacher in New York and a Teach's start collaborator. Matters, elements and compounds, states of matter, sys plasma, conservation of the law of matter, dark matter, physical change, chemical change, six types of chemical reactions, gas laws, Charles law, avogadro law, ideal gas law, Pascal Law, visc. If some students have problems with the lesson, you can show an example of an insulation and an example of a driver on the board as a reference point, reference, apply their scientific research skills " reasoning throughout the worksheet. All About These Isolators and Drivers This worksheet can be used as a post-lesson evaluation to determine the understanding of your students of the characteristics of drivers and insulations. Show each of the items to your class and discuss as a group that are examples of insulation and conductors, and how electrons can move (or not move) with the material. It includes a simple explanation of drivers and insulations in terms of low and high resistance. Use this worksheet of insulation and conductors with your students to practice identifying the characteristics of thermal and electrical energy. It's getting hot here! Using this worksheet, your students will differentiate between the thermal and electric power insulators and conductors. Draw an image(s) of an insulating and/or religious education. The word wall comes in color, and in black and white. The concepts are quite simple, but choosing the right process in a test is surprisingly complicated! Here there is a slide presentation to begin a lesson with, and if you need more practical or theoretical preparation test with these terms a task card and a nearby reading title: **Insulation and conductors working cards and scoresArticles: Insulators and ConductorsGreat for integers, small groups, ESL, ELL and ALL (academic apprentices) stConductors st us a odibeD;Ä .so±Aa sonu each SET ed o±Aa led sorsucer ed rodæa: la oimerp nu arap odanimon iuf y so±Aa 8 ed s;Äm etnarud SET le ne sorsucer ed rodæa: odis eH .n ©Äibmat selanoisaco sacit;Ämetam ed sosrucer sol y sælbmasa sanugla yah n ©ÄibmaT .acirtc ©Äleordih aÄgrene .lis'Äf elbitsubmoc .n'Äicubirtsid .n'Äisimsnart ed der .n'Äisimsnart .rodamrofsnart .ejatlov .anibrUT rotpurretni .rotpurretni .rotpurretni .rotpurretni .rotpurretni .rotpurretni .seires ed otuicric n'ÄAicatnemila ed n'ÄAicatse .olelarap otuicric .atibr'Ä .airetam .allibmob .etnalsia .rodareneq .otnemalif .zirtomorcelle azreuf .acirtc ©Äle etneiroc .rotcudnoc .otuicric .aÄretab .omat;Ä :ogeu; 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