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Thermodynamics

Heat always flows from hot to cold. The amount of heat transferred depends on the material.

Insulators are materials that do not allow heat to pass through them easily. They are used to keep things warm or cool.

Conductors are materials that allow heat to pass through them easily. They are used to transfer heat from one place to another.

Normal energy heat is transferred in three ways: Conduction, Convection, Radiation.

Conduction
 Conduction happens through direct contact. Heat energy is transferred from one particle to another. Solids are good conductors. Liquids and gases are poor conductors.

Convection
 Convection happens through moving particles. Heat energy is transferred by the movement of fluids. Solids are poor conductors. Liquids and gases are good conductors.

Radiation
 Radiation happens through electromagnetic waves. Heat energy is transferred without the need for a medium. All objects emit radiation. Dark objects absorb more radiation than light objects.

Sun, Moon, or Earth?

Directions: Read each statement. Decide if the statement applies to the Sun, Moon, or Earth. (Some may apply to more than one object.)

1. It is Earth's satellite. **Moon**
2. The center of our Solar System. **Sun**
3. Has liquid water. **Earth**
4. Has a rocky surface. **Moon**
5. Has a thick atmosphere. **Earth**
6. People could NOT land on its surface. **Moon**
7. Has large amounts of liquid water. **Earth**
8. Is the hottest of the three. **Sun**
9. Is the coldest of the three. **Moon**
10. Is about 238,000 miles from Earth. **Moon**
11. Its diameter is about 109 times the diameter of Earth. **Sun**
12. Is about 93 million miles away from Earth. **Sun**
13. Its diameter is about 1/4 the diameter of Earth. **Moon**
14. Rotates once every 24 hours. **Earth**
15. Rotates around the Earth once every month. **Moon**
16. Rotates around the sun once every year. **Earth**
17. Has no life. **Sun & Moon**
18. Has a geologically active surface. **Earth**

CONDUCTORS

We use metals to make objects that need to conduct heat well. For example, metal spoons conduct heat well so the food inside heats up quickly.

HEATING AND BOILING POINT GRAPH

1. What is the boiling point of the substance?
 2. What is the melting point of the substance?
 3. What is the freezing point of the substance?
 4. What letter represents the time when the solid is being warmed?
 5. What letter represents the temperature during the boiling process?
 6. What letter represents the range where the liquid is being warmed?
 7. What letter represents the melting of the solid?
 8. What letter represents the superheating of the liquid?
 9. What letter represents the cooling of the liquid?
 10. What letter represents the freezing of the liquid?
 11. What letter represents the range where the solid is being cooled?
 12. What letter represents the solidification of the liquid?

Conductors & Insulators

A **CONDUCTOR** is a material that allows electricity to pass through it.

An **INSULATOR** is a material that doesn't allow electricity to pass through it.

Test the objects below and find out whether they are conductors or insulators. TICK the correct option

	CONDUCTOR	INSULATOR
pencil		
ruler		
lemon		
2 Cents		
Plastic spoon		
potato		
Metal spoon		
Piece of paper		
key		
Piece of card		
Plastic toy car		
Metal spoon		
lemon		
key		

LIVEWORKSHEETS

You will need: two cups (made with the same material, for example plastic) a spoonful of metal a spoonful of plastic. Polystyrene is also a good insulator and is able to keep things fresh fresh and warm. Note which spoon heats up more quickly, be careful when working with boiling water and when you touch the spoons as you can easily burn. He explains because: red brick is a better choice than concrete for construction houses that need less internal heating. But as fun as it is to say "all about!" A ç à, -à € ; à ç àvelop in this scientific activity, your students will try to predict the ability to transfer the energy of the common materials. Wait! Do not go anywhere until you navigate further activities and resources for teaching and discussion of heat and energy: this scientific unit deals with the concept of thermal energy, including heat sources, heat transfer, thermal conductors and the Thermal insulators. 36 pages: 6th complete set of posters, activities and worksheets relating to the concept of thermal energy. 74 Pagegrages: 3-4 - Teach students to make forecasts and observe the transfer of thermal energy through this management experiment. 5 Pages: 6 Use these insulators and the conductive sheet of work with your students exercised to identify the characteristics of thermal and electric energy. It is becoming hot here! Using this sheet of work, your students will distinguish between insulators and thermal and electric energy conductors. Metal is a good thermal conductor, while plastic is a bad thermal conductor. Test yourself and find out more about Siyavula practice. Sign and test yourself a thermal conductor is a material that allows you to transfer energy in the form of heat, to be transferred inside the material, any movement of the material itself. Because of its design, you can also use this sheet of work as a quiz! This sheet of insulators and conductors is divided into 3 sections: firstly, students will correspond to the following thermal thermal energy words to their respective definitions: Thermal Energy Conduction Insulator Conductor Electrical Energy Next, students will use their knowledge of thermal heat transference to identify whether each of the following materials is either a conductor or an insulator: Aluminum can Rubber duck Plastic bottle Wooden spoon Eraser Metal spoon Penny Paper clip Finally, students will read a short paragraph and recall their observations about thermal energy to determine which material(s) would make the best conductor within the story, and write their answer in the space provided. Since air is a poor conductor and a good insulator, this helps to keep energy within the building. Then, make photocopies of the blank worksheets for students to fill out on their own. Before You Download Use the drop-down menu to choose between the PDF or Google Slides version. If some students are having trouble with the lesson, you could display an example of an insulator and an example of a conductor on the board as a reference point, and apply their science investigation & reasoning skills throughout the worksheet. Two building materials that are being used more and more worldwide, are mineral wool and polystyrene. The metal spoon heats up faster than the plastic spoon. Pour boiling water into the two cups so that they are about half full. Is It a Conductor or an Insulator? Change the Difficulty Level if Needed Students who are able to quickly get through this assignment can show they understand the concept by listing other materials and identifying them as good insulators or conductors. Materials that let electrons move freely, allowing the transfer of heat energy is called conductors. Stainless steel is good for making cooking pots If you plan to use this resource as a science center activity, we suggest printing on heavy cardstock for durability. An easy way to understand this concept is through a simple demonstration. YoucÀÀÀve just created a qnitrnp yb ytitvta srotalusni dna srotcudnoc elbasuer a etaeC lmelborp on ,eulg on ,srossics oN ytitvtaC retneC ocneicS elf eritne eht fo ypop eno qnitrnp tsrif dneemmocer ew ,teehs rewsna eht sedulcni daolnwod siht esuaceB stnedutS ruoY rof ecruoseR siht qniraperP ,daolnwod eht ni dedulcni si yek rewsna nA ,ygrene ro yticirtcele fo refsnaat a wolla ton seod taht lairetam a si rotalusni nA ,FDP a sa ro sediS elgooG ni elbalava si ecruser siht eton esaelP daolnwod uoY erofeB ,krowemoh ecneics sa ro ,moorssalc eht ni ,sriap ni ro yltnednepedni detelpmoc eb nac tl ,teehskrow siht etelpmoc ot srossics dna eulg deen osla lliw stnedutS ,seceip emag elbasuer meht ekam ot sdrac lairetam eht tuo tuc ,nehT ,srotalusni lamreht doog gnieb sa debircsd eb osla nac srotcudnoc lamreht roop era taht slairetaM ,wedlim DNA DLUOM, ERUTSIOM OT TNATSISER GNIEB FO EGATNAVDA DEDDA DEDDA EHT SAHT ,SNALP ERUTUF DNA SSECCUS RUOY OT YEK EHT ECNEICS NI SKRAM HGIIH 7 - 6: dnoc serolpxe taht teehskrow A5 - 4 :sedarGsegap 2,ygrene taeh refsnaat ot ytiliba rieht no desab srotalusni dna srotcudnoc tros dna tuc lliw stneduts ,teehskrow no-sdnah siht htiW6 :edarGsegap 5.tnemirepxe noitcudnoc siht hguorht refsnaat ygrene lamreht evresbo dna tuoba snoitciderp ekam ot stneduts hcaeT :aera ygrenE dna ,noitOM ,ecroF ruo ni dnuof secruoser dna steehskrow ygrene taeh lanoitidda eseht tuo koeHC lereht pots tÀÀÀændid eW ,rehtegot seceip dna draob eht peek ot redlof a ni lla ti tuP ,tekciit tixe na sa niaga ti od ot stneduts gniksa yb morf denrael veht tahw tset nossel eht detelpmoc evÀÀÀcuoy ecnoO ,gnidarg kciuq rof yek rewsna na sedulcni osla daolnwod siht eulg srossicS tneduts hcae rof teehskrow ,dedeen slairetaM ,elf eritne eht fo ypop eno qnitrnp tsrif dneemmocer ew ,teehs rewsna eht sedulcni daolnwod siht eSuaceb stniduts ruoy ruoy rof ecruoseR siht Eraperp ot woh! \$ }|-{ ~\$ m ,À çAw' tset (\ (\ acimret. Atiilibicudnoc elairetaM ? 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Working through questions 1-13 together, discussing the characteristics of different materials e This that makes them conductors or insulators. Show & GT; Saying it is possible to transform this sheet of work into a review session at the end of the lesson, or immediately before a test to give students some extra practices. In other words, the metal He leads warmth well, but plastic does not do so. For demand 14, students can write their answers on a separate paper sheet and transform them into an easy training evaluation. But they can also write the name of the material in the column. On this insulators and conductors worksheet this sheet of work can be used as a post-rating n to determine the understanding of the students of the characteristics of the conductors and insulators. This resource was created by Colleen Burke, New York teacher and Teach Starter collaborator. In this activity, the students will cut the objects at the bottom of the page and order them in conductors and insulators: stainless steel of the wood of the golden golden water of the copper rubber of glass oil This resource can also be used as an activity of interactive notebook. Look at the table below, which shows the thermal conductivity of a certain number of different materials, and then answer the following questions. Put a spoonful of metal in a cup and a plastic spoon in the other. With this practical sheet of work, students will cut and order conductors and insulators based on their ability to transfer thermal energy. If you say the word à ç œConductor there in yours Your students might first think you are going to dive into a lesson on trains. The higher the number in the second column, the better the material is to conduct the heat (i.e. it is a good thermometer thermometerBefore teaching the concept, your students work on their scientific investigations and reasoning skills to determine whether the previous experience with these materials can tell them how well materials conduct or isolate heat. Warning/Exit Design this worksheet on your smartboard or other devices for the whole class to see. Remember that a material that conducts heat efficiently, will also lose heat faster than an insulating material. What do they know about different metals, wood, glass and others? others?

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