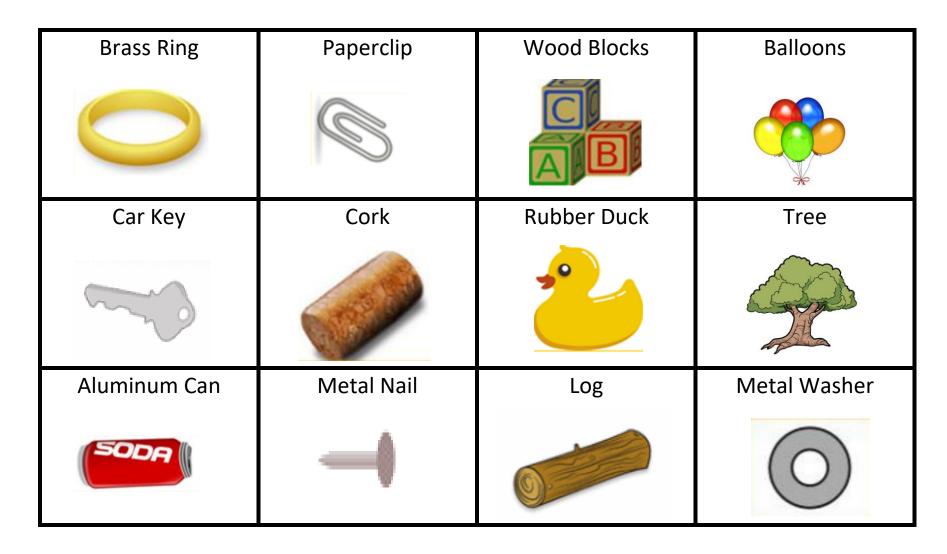
Differentiate between conductors and insulation	tors of thermal and electrical energy	
Student sheet 2.a Conductivity Steps for Succ	ess	
<ol> <li>Think about the definitions of insulator</li> <li>Look at each picture to see if you can id</li> <li>Place the picture on the side you think</li> <li>Say to your partner "I think this is a/an</li> <li>Do four objects out-loud as a group the</li> </ol>	dentify whether it is an insulator or a it belongs. (insulator/conductor) because	
1. I think the		
2. I think the	_ is a/an	_because
3. I think the	_is a/an	
4. I think the	is a/an	
5. I think the	_is a/an	_because
6. I think the	_is a/an	_because
	Copyright Accelerating Success 2018	

Differentiate between conductors and i	nsulators of thermal and e	electrical energy	
Student sheet 2.a Conductivity Steps fo	r Success		
	u can identify whether it i think it belongs. a/an (insulator/conducto	s an insulator or a conductor. r) because e stems below to explain your answer for the last 12 c	bjects.
		because	
8. I think the	is a/an	 because	
9. I think the	is a/an	because	
10. I think the	is a/an	because	
		because	
12. I think the	is a/an	because	
	Copyright Acceleratir	ng Success 2018	

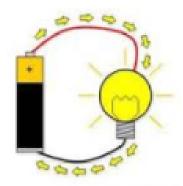
Conductors and Insulators	
Conductor	Insulator
Сору	right Accelerating Success 2018

## 2.a

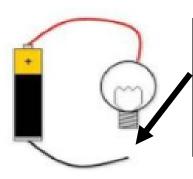
Cut out the objects and use them for board 2.a. Sort them based on the physical property on the chart. Each time you sort the object explain to your partner why you are making that decision.



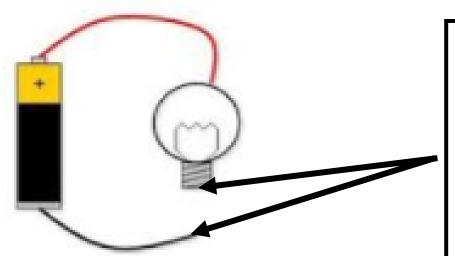
## WHEN IT IS OPEN IT IS BROKEN WHEN IT IS CLOSED IT FLOWS



When all of the parts of a circuit are connected, the energy can flow like in the picture to the left.



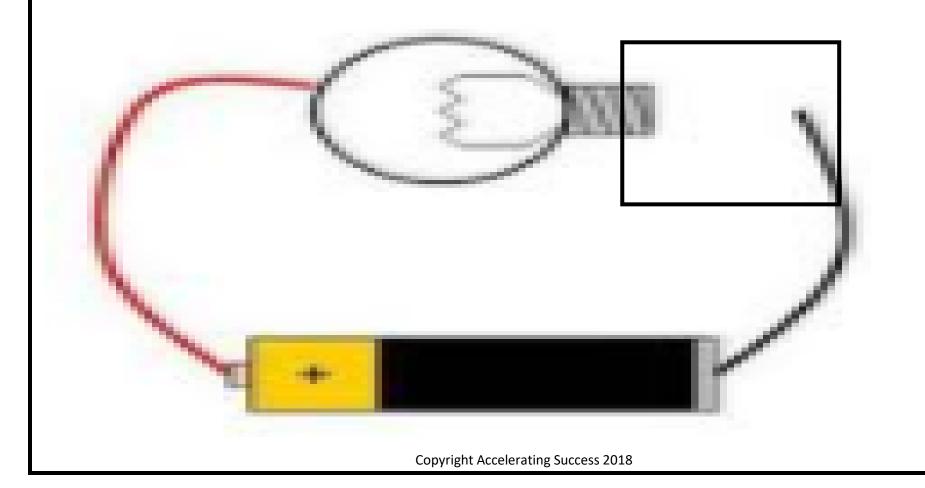
When the circuit is open and not all of the parts are touching the energy cannot flow.

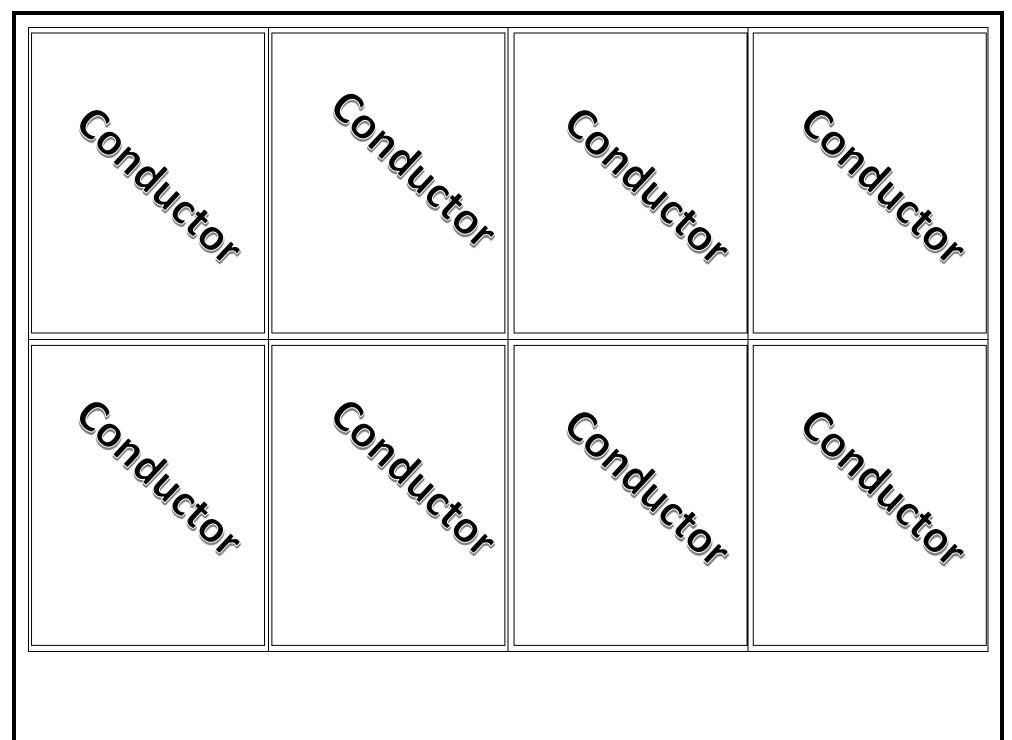


When a conductor connects the circuit and touches both sides it will allow the energy to flow and light the light bulb. Place the items in the box and use the sentence stem below to discuss conductors and insulators.

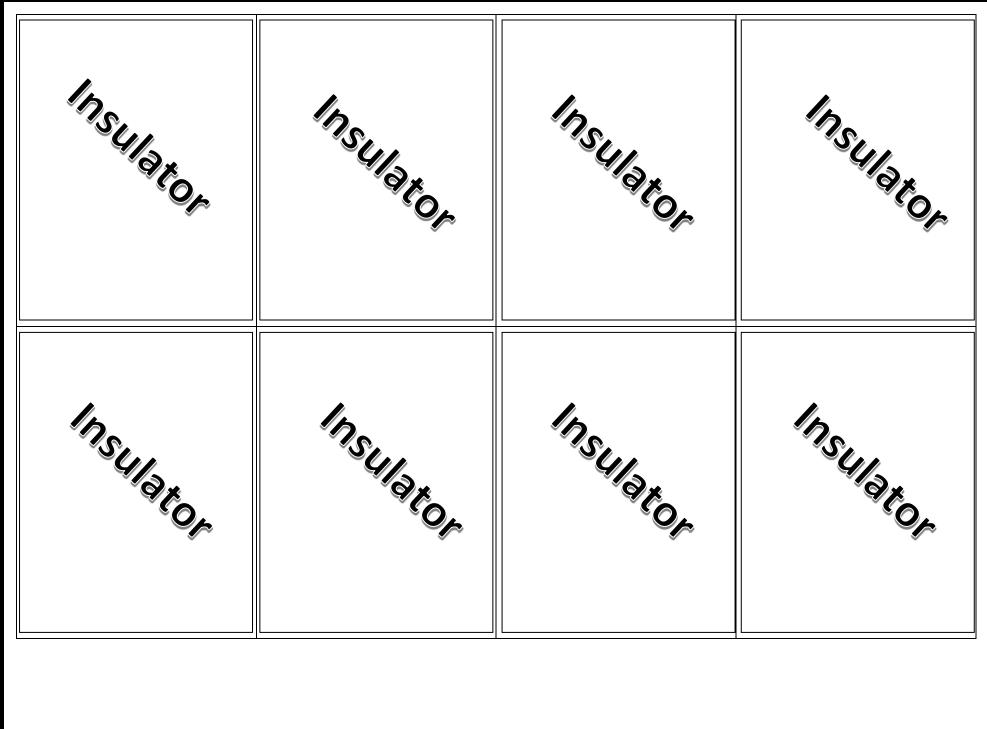
Sentence Stem:

I think that the \_\_\_\_\_\_ is a (insulator, conductor) because \_\_\_\_\_\_

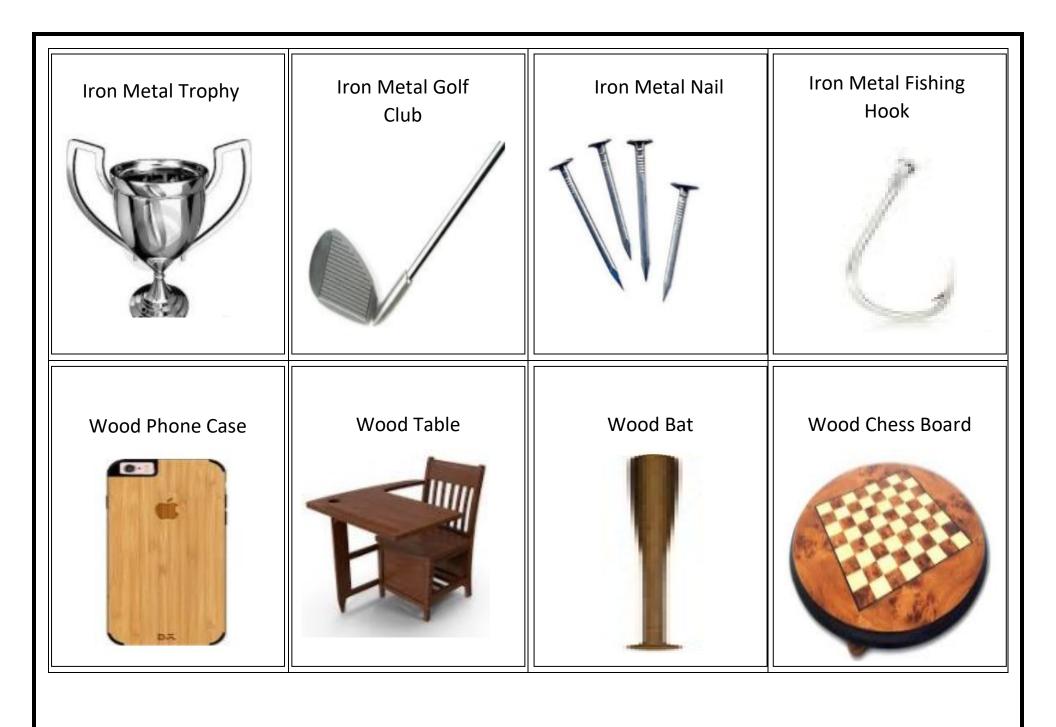




Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



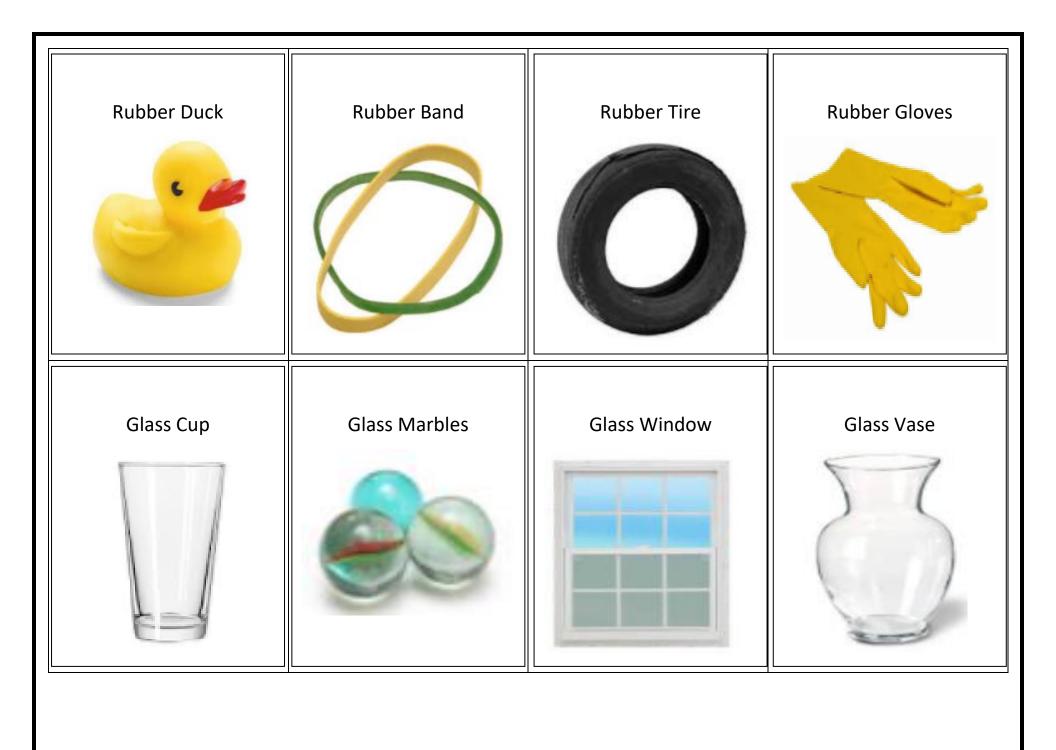
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



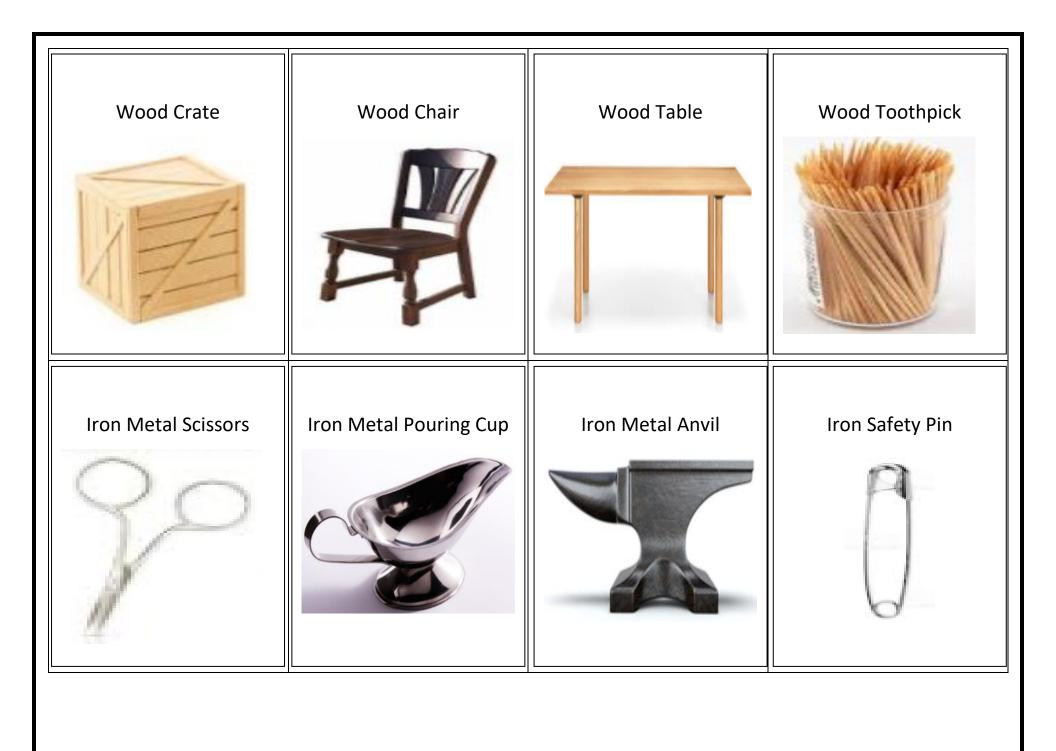
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game



Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game
Conductor	Conductor	Conductor	Conductor
Or	Or	Or	Or
Insulator	Insulator	Insulator	Insulator
Game	Game	Game	Game

Instructions for Conductor and Insulators Game 1. Each group should have three or four	Accountable talk prompts for insulator and conductor game.
<ul> <li>scholars.</li> <li>2. Each scholar should have one conductor card and one insulator card.</li> <li>3. Hold one card in each hand.</li> <li>4. The dealer will rotate each round.</li> <li>5. The dealer will pull on card and place it in the center.</li> <li>6. Scholars will look to see if the card is an insulator or a conductor.</li> <li>7. Whoever placed the correct card on the item first, and justifies their response gets the card.</li> <li>8. If there is a disagreement scholars will check the scholar answer key.</li> <li>9. The scholar with the most cards wins!</li> </ul>	I think that is a(n) (insulator, conductor) because  I disagree because I agree because

Scholar	Object Name	Object Material	Insulator	Conductor
	Iron Metal Scissors	Metal		Х
Answer	Iron Metal Pouring Cup	Metal		Х
Kovi	Iron Metal Anvil	Metal		Х
Кеу	Iron Safety Pin	Metal		Х
	Iron Metal Screw	Metal		Х
	Iron Metal trophy	Metal		Х
	Iron Metal Golf Club	Metal		Х
	Iron Metal Nail	Metal		Х
	Iron Metal Fishing Hook	Metal		Х
	Iron Metal Keys	Metal		Х
	Iron Metal Spoon	Metal		Х
	Iron Metal Screw	Metal		Х
	Wood Phone Case	Wood	Х	
	Wood Desk	Wood	Х	
	Wood Bat	Wood	Х	
	Wood Chess Board	Wood	Х	
	Wood Spoons	Wood	Х	
	Wood Table	Wood	Х	
	Wood Bowl	Wood	Х	
	Wood Ruler	Wood	Х	
	Wood Crate	Wood	Х	
	Wood Toothpicks	Wood	Х	

Scholar
Answer
Key

Object Name	Object Material	Insulator	Conductor
Cloth Napkin	Cloth	Х	
Cloth Towel	Cloth	Х	
Cloth Shirt	Cloth	Х	
Cloth Shorts	Cloth	Х	
Rubber Duck	Rubber	Х	
Rubber Band	Rubber	Х	
Rubber Tire	Rubber	Х	
Rubber Gloves	Rubber	Х	
Plastic Legos	Plastic	Х	
Plastic Water Bottle	Plastic	Х	
Plastic Tupperware	Plastic	Х	
Plastic Bucket	Plastic	Х	
Glass Cup	Glass	Х	
Glass Marbles	Glass	Х	
Glass Window	Glass	Х	
Glass Vase	Glass	Х	