Worksheet 5.1a

Electrical conductors and insulators

Name:	Date:	
Will the bulb light up in each	n of the following circuits?	
Write YES or NO alongside	each	
A +	metal key	
В — + Ф	plastic duck	
C - +	china cup	
	cork	
D - + 0		
1		

Worksheet 5.1b

Name:__

Test materials to see if they conduct electricity

_____Date: ___

Material	Prediction insulator	: conduct	Result: co	Result: conductor or insulator			
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							

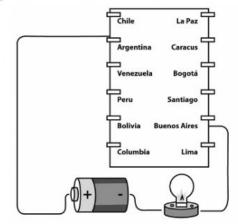
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Worksheet 5.1c

Make an electrical quiz

Name: Date:

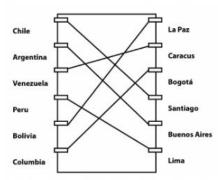
Write the names of the countries and their capitals on the card as shown in the diagram. We have shown some countries in South America but you can use different countries if you want to.



You will need:

- a piece of stiff card about 30 × 15 cm
- 12 metal paper clips
- 1.5 V cell
- bulb in bulb holder
- about 3 m connecting wire, wire cutters or scissors and sharp knife.

Cut six lengths of wire and fix one end of each wire to paper clips as shown in the diagram.



Make a circuit with the cell, the lamp and the wire as in the first diagram. You will use the free ends of the wire to play the game.

To play the game, ask your friend to tell you the capital of one of the countries. Move the free ends of the wire to touch the country on one side of the card and the capital on the other side. If the answer is correct the light will come on.

- 1 Why does the bulb only light up when the correct answer is given?
- 2 Why did you use metal paper clips and not plastic coated paper clips?

Worksheet 5.3a

Test metals to see how well they conduct electricity

Metal		(Predic condu weake	tion: ctor ratir est) to 6 (ng 1 (best)	Amps measurement		Conducto based on	Conductor rating based on results		
1.											
2.											
3.											
4.											
4.											
5.											
6.											

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Worksheet 5.3b

Identifying conductors and insulators Name: Date: Complete the following table. Object or substance If I put this object or substance Is the object a conductor or an in an electric circuit will the insulator? bulb light up? Yes/No plastic button glass marble salt water chalk brass button iron nail wax crayon pure water aluminium baking tray plastic comb

Worksheet 5.5

aw the circuit using circuit symbols in the space below.	me:						Date:			_
	re is an elect	ric								
			_							
		/						\		
		(1		
		•			M+1	-61+1)		
	aw the circui	t using ci	ircuit	symbo	ls in the	snace he	OW			
	aw the cheur	t using ci	ilcuit	symbo	is in the	space bei	ow.			_

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