

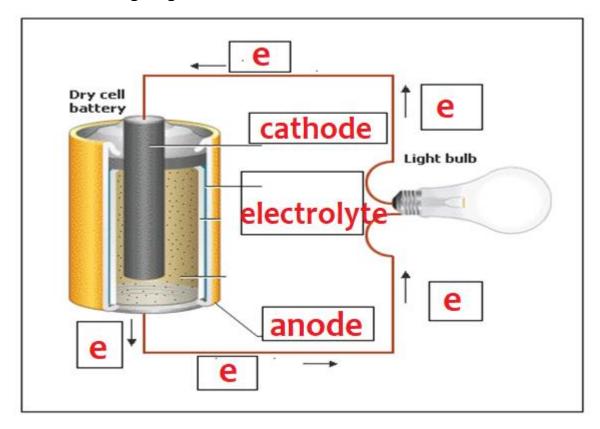
## Science Worksheet #1 / Term 2

## Investigating batteries/ Describing electric circuits

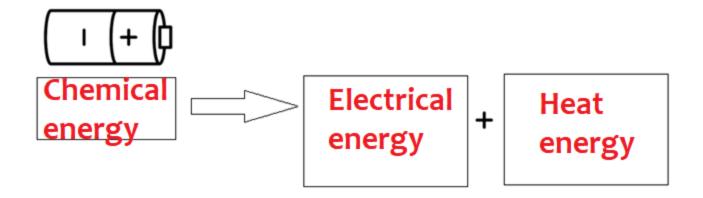
Name: \_\_Answer Key Grade 8 ( )

Date: /02/2023

## 1 – Label the following diagram.



2- Complete the following energy transfer diagram showing changes taking place in a battery.















## 3- Study the following fruit battery, and then answer the following questions.



b-	The zinc nail represents the:	<mark>anode</mark>	cathode					
C-	Name the device you would use to measure the voltage across this circuit.							
	Voltmeter							
d-	Can you think of other ways of incre							
	Increase the juice so use a fruit with more juice.							
	Decrease the distance between the metals							
	Change the metals							
e-	Explain the following statement:	'A battery will not work	with dried fruit.'					
	_The liquid will enable the electrons to move and take part in the chemical							
	reactions.							







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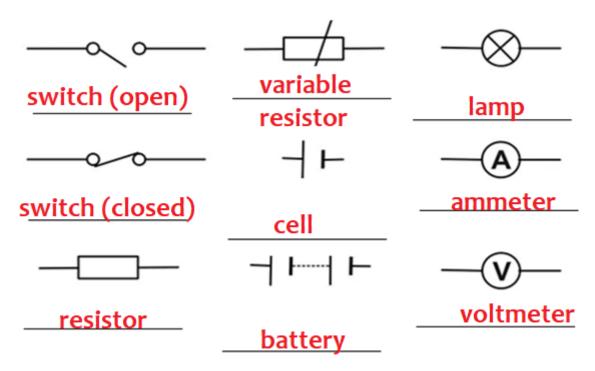




a- Draw the flow of the electric current in this battery.



4- Name the following circuit symbols.



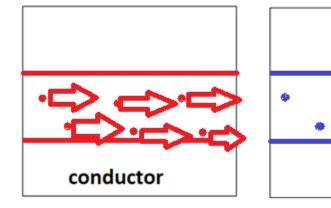
5- Which of the following are likely to be conductors and which will be insulators?

	copper	iron	brass	plastic	carbon (graphite)	glass	
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Conductors: copper/iron/brass/carbon

Insulators: plastic/glass

- Draw a model to represent an electrical insulator and an electrical conductor, to explain the meaning of these two terms.









insulator

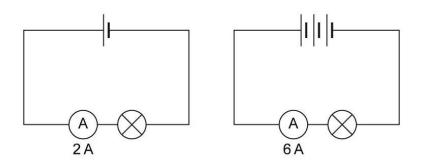








- Explain the differences in current in the two circuits shown below.



The second circuit has more cells which means that increasing cells produces larger current.





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