



# ELECTRICITY AND MAGNETISM

**Watch the following presentation:**

[https://drive.google.com/file/d/1OU6CLwXN9IHro87M7Rs2kCAP66ly0\\_ke/view?usp=sharing](https://drive.google.com/file/d/1OU6CLwXN9IHro87M7Rs2kCAP66ly0_ke/view?usp=sharing)

# WHAT IS ELECTRICITY?

Electricity is the presence  
or flow of **charged  
particles**.

# WHAT IS ELECTRICITY?

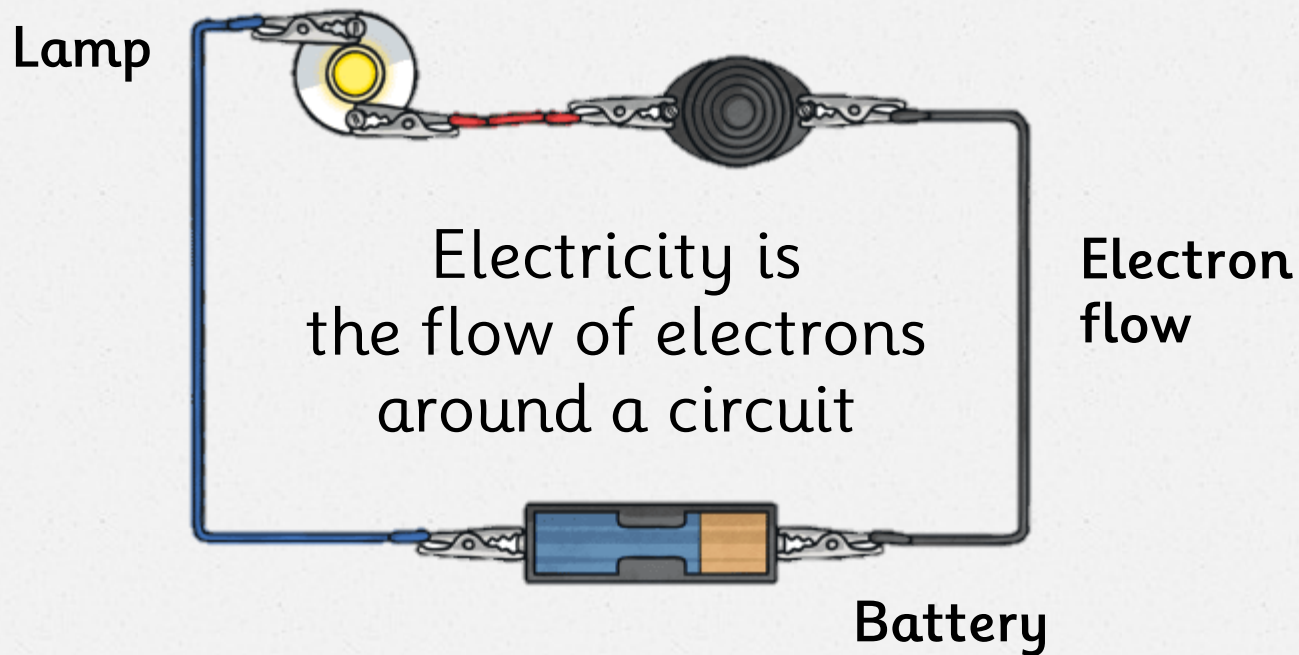
An **electric current** is the flow of **electrons** around a circuit.



# WHAT IS ELECTRICITY?

The **electrons** travel from the negative pole of battery to the positive pole.

# WHAT IS ELECTRICITY?



# ELECTRIC CIRCUITS

Bulb



Battery



Switch





# WHAT IS A CONDUCTOR MATERIAL?

It is a material that **lets**  
electrical **energy flow** through  
freely.

# WHAT IS A INSULATOR MATERIAL?

It is a material that **stops** or **slows** the flow of electrical energy.

<https://www.bbc.com/bitesize/articles/zxv482p>



# CONDUCTORS AND INSULATORS

- A **conductor** lets electrical energy flow through freely.
- An **insulator** stops or slows the flow of electrical energy.

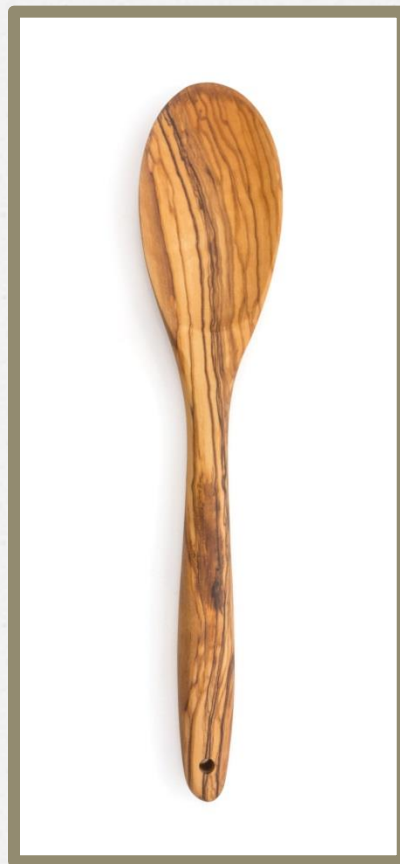
Are the following  
materials **CONDUCTORS**  
or **INSULATORS?**

ALUMINIUM  
CAN





WOOD  
SPOON



GOLD  
RING





METAL  
PAPER  
CLIP

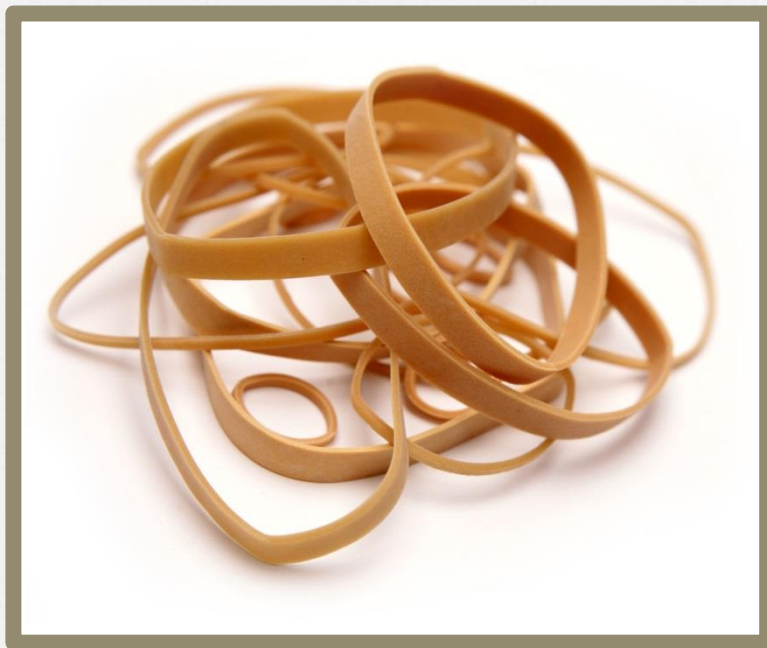




PLASTIC  
SPORK



RUBBER  
BAND





PLASTIC  
DICE





IRON POT



METAL WIRE







STEEL KEY



PAPER  
ENVELOPE



COOPER  
PENNY

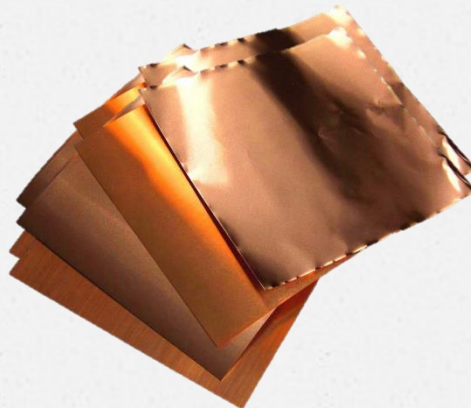




# SILVER BRACALET







# TASK 7



# TASK 7

**STEP 1.-** Do the digital **CLASS BOOK** activities:

- 6 DIGITAL CLASS BOOK > Module 2 > Unit 5  
Electricity and magnetism > Read pages 20-21

**STEP 2.-** Do the following **WORKSHEET**





**SCIENCE DEPARTMENT**

May 2020



NAME : .....

DATE : .....

## UNIT 5: MATTER

### CONDUCTORS AND INSULATORS

- I. Classify the following objects as conductors (C) or insulators (I). Remember that a **conductor** is a material that allows electricity to pass through whereas an **insulator** is a material that doesn't allow electricity to pass.

