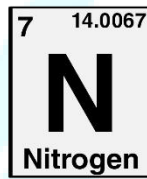
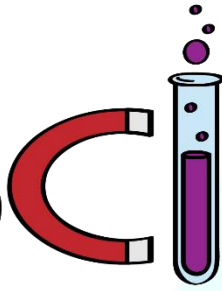
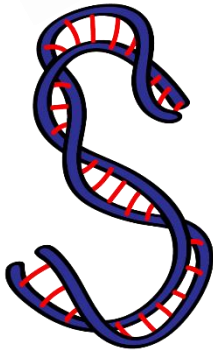




ASPIRE
INTERNATIONAL SCHOOL



Science Department

2023/2024

Year 4

Term 3, Week 3

ASPIRE

INTERNATIONAL SCHOOL

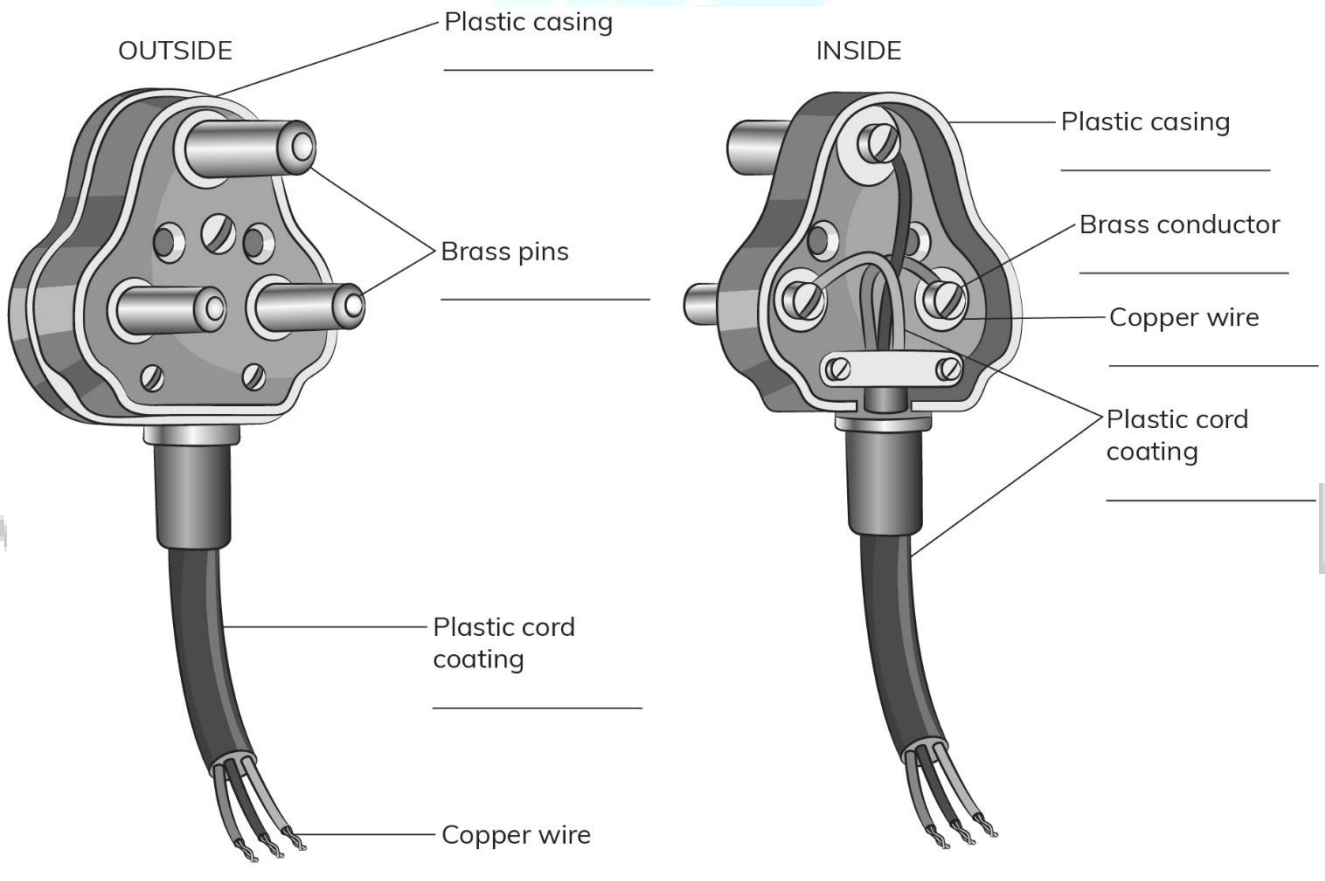
Name:

Class:

1 Draw lines linking the words on the left with their meanings on the right.

Word	Meaning
Plug	A circuit where electricity flows all the way round.
Electric shock	The connection between the plug and the electricity supply.
Wall socket	A device to connect electric wires or cables to an electricity supply.
Complete circuit	The effect of high voltage electricity passing through your body.

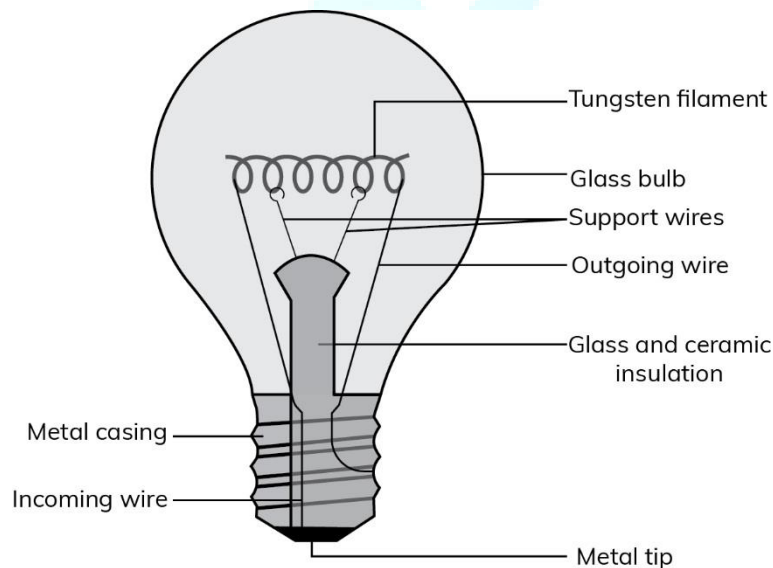
2 Write the labels 'conductor' and 'insulator' in the correct spaces on the diagrams below.



- 3 Why must you always pull out a plug from a wall socket by gripping the plastic cover of the plug, and not pull the cord?
-

4 Identify conductors and insulators in a light bulb

Electricity flows in a circuit in the light bulb. Electricity comes through the metal tip at the base of the bulb and flows through the wire on the left. Electricity flows through the tungsten filament and then down the wire on the right to complete the circuit. Tungsten is a type of metal. Part of the glass and ceramic insulation has been cut away so that you can see what is inside the metal casing.



- a List **four** parts of the light bulb which are made of materials that conduct electricity.
-

- b Why do these parts have to conduct electricity for the lamp to work?
-

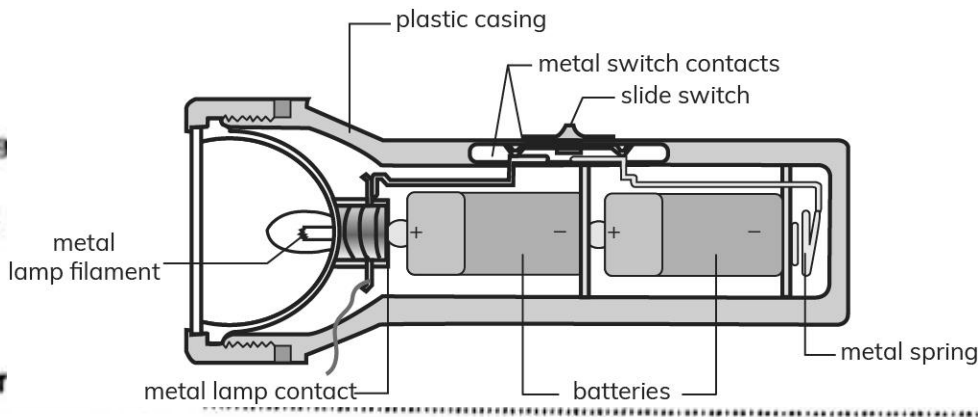


5 Here is a picture of the inside of a flashlight.

Complete

Cables

They are



7/25

For safety, wires are covered with materials that do not conduct electricity.

The wires are covered with

Any material that is a non-conductor is an

Complete these sentences.

Cables and wires need to be **good** electrical conductors.

They are made of

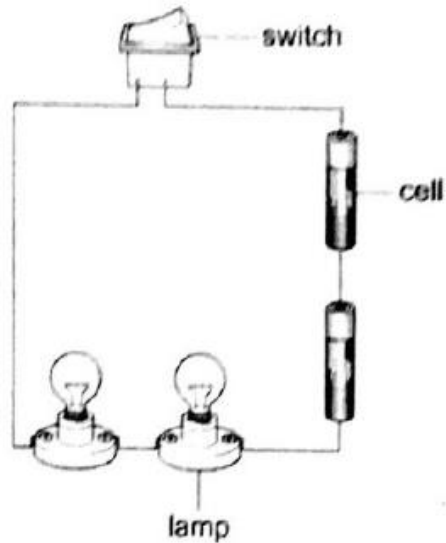
SP/14/01/25

For safety, wires are covered with materials that do not conduct electricity.

The wires are covered with

Any material that is a non-conductor is an

7 Youssef is building electrical circuit, when the switch is closed, the circuit doesn't work. Why is this?



Tick (✓) the correct box.

More than one lamp is needed.

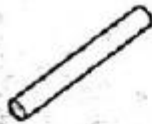




More than one switch is needed.

The cell is the wrong way round.

The circuit is not complete.

The switch must be open.

8 Hania removes the switch from her circuit; she replaces the switch with an object shown in the table. Tick ✓ if the lamp works.

object to replace switch	lamps work
 a piece of chalk	
 plastic pen	
 an iron nail	
 a coin	
 wooden ruler	