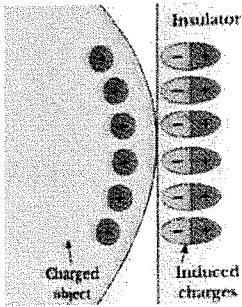


5. What is being shown in the picture below?



CHARGE BY POLARIZATION

6. What are some examples of conductors? Insulators? Why do these materials behave the way they do? ↴

← METALS
WATER

→ RUBBER GLASS
PLASTIC WOOD

CONDUCTORS ALLOW e^- TO FLOW AND INSULATORS WANT TO HANG ONTO e^- (LIMIT FLOW).

7. What are the particles that make up an atom? What are their charges? Where in the atom are they found?

PROTONS → + CHARGE

NEUTRONS → NO CHARGE

ELECTRONS → - CHARGE → FOUND IN ELECTRON CLOUD

} FOUND IN NUCLEUS

8. What impacts electrical resistance in a wire?

1. CONDUCTIVITY

2. THICKNESS OF THE WIRE

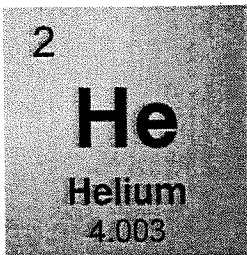
3. LENGTH OF THE WIRE

4. TEMPERATURE

9. What is an electroscope?

AN INSTRUMENT FOR DETECTING ELECTRIC CHARGE.

10. Determine the atomic number, mass number, charge, number of protons, neutrons, and electrons for the following atoms/ions:



31
15P³⁻

	ATOMIC #	MASS #	CHARGE	PROTONS	NEUTRONS	ELECTRONS
He	2	4	NONE	2	2	2
P ³⁻	15	31	-3	15	16	18