കൈ സോപ്പ് ഉപയോഗിച്ച് കഴുകുക
സാനിറ്റൈസർ ഉപയോഗിക്കുക
മാസ്ക് ധരിക്കുക
സാമൂഹിക അകലം പാലിക്കുക

MALAPPURAM EDUCATIONAL DISTRICT

FIRST BELL SUPPORTING MATERIAL

PHYSICS

CLASS : 10 CHAPTER : 3 ELECTROMAGNETIC INDUCTION PART1

CLICK THE THUMBNAIL TO WATCH THE VIDEO

KITE VICTERS STD 10 Physics class 15 (First Bell-

1. It is possible to convert electrical energy to other forms. Write the energy conversion in the following equipments

DEVICE	CHANGE IN ENERGY	
Electric bulb	Electrical Energy	LIGHT ENERGY
Immersion heater	Electrical Energy	HEAT ENERGY
Electromagnet	Electrical Energy	MAGNETIC ENERGY

2.You are very familiar with solar cell. Write the energy conversion in it?

LIGHT ENERGY CONVERTED IN TO ELECTRICAL ENRERGY

3.Look at the figure of the experiment using barmagnet, solenoid and galvanometer

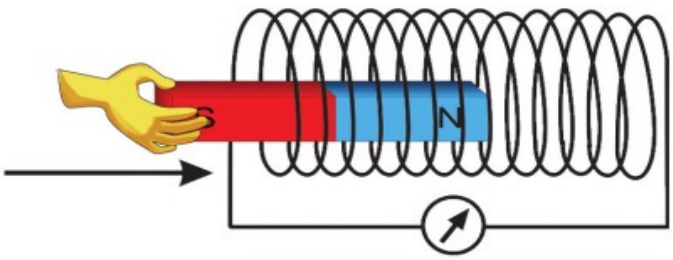

fig A

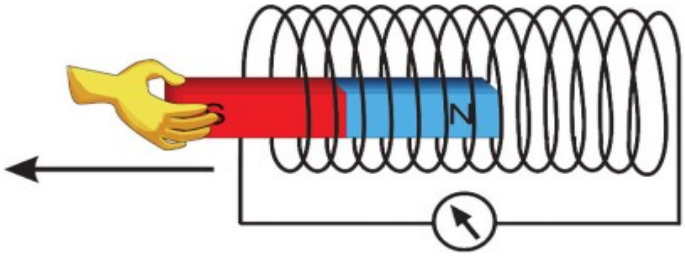

fig B

MALAPPURAM EDUCATIONAL DISTRICT

FIRST BELL SUPPORTING MATERIAL

PHYSICS

a. Complete the table

Sl. No.	Experimental procedure	Observation (Galvanometer needle)	
		Deflects/ does not deflect	Direction to the left/ to the right
1	The magnet is stationary near the solenoid	NO DEFLECTION	
2	North pole of the magnet is moved into the solenoid	DEFLECTS	RIGHT
3	The magnet is stationary inside the solenoid	NO DEFLECTION	
4	The magnet is moved out of the solenoid.	DEFLECTS	LEFT
5	The south pole of the magnet is moved into the solenoid	DEFLECTS	LEFT
6	Magnet and solenoid are moved in the same direction at the same speed	NO DEFLECTION	
7	The solenoid is moved keeping the magnet stationary	DEFLECTS	RIGHT LEFT

**if the solenoid moves towards North pole of the magnet - RIGHT
**if the solenoid moves towards South pole of the magnet - LEFT
**if the solenoid moves away from the North pole of the magnet - LEFT
**if the solenoid moves away from the South pole of the magnet - RIGHT

b. Name the phenomenon in which electric energy is produced due to the relative motion between magnet and solenoid

ELECTRO MAGNETIC INDUCTION