## Week 37 – SCIENCE NOTE PAGE Motors & Generators



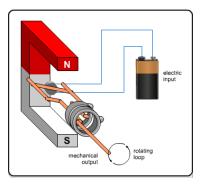
Electricity and Magnetism are Linked TOGETHER!

- Moving magnetic fields can produce electricity, which is easily transported to wherever we need it!
- Then, we use electricity to generate moving magnetic fields, which can make stuff move and do work for us

## **Electric Motor**

(Motion from electricity)

- Motor a machine that converts electrical energy into mechanical energy
- <u>Electrical</u> → Mechanical

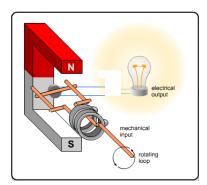


**Examples**: fans, power tools, washing machine, dishwasher, blow dryer for hair

## **Electric Generator**

(Electricity from motion)

- Generator a machine that converts mechanical energy into electrical energy
- <u>Mechanical</u> → Electrical



**Examples**: power plants (turbines), gas generators used in emergencies