Electricity Review

Electrical Concept	Symbol	Unit

Ohm's Law:

Power:

Transformers

Transformers are used to change (transform) voltages from one value to another value. They are used to either increase or decrease voltages.

Watch this video explaining how transformers work…

http://youtu.be/**ZjwzpoCiF8A**

Principle Explanation:

- The alternating current (AC) in the primary coil produces a changing magnetic field around that coil
  [**Oersted's Principle**]
- The changing magnetic field around the primary coil induces a current in the secondary coil
  [**Faraday's Law**]

** if the coils have different number of turns in the coils the voltage will be either increased or decreased.

Mathematically:

Energy cannot be created or destroyed. So the energy and hence the power in each of the coils must be equal.