

# Electricity & Magnetism: 40 Questions (1-20)

Answer	Question
	Who is responsible for defining electric current? (T/F) Faraday invented the BATTERY.
	(T/F) A changing electric field creates a magnetic field. (T/F) Faraday saw what Oersted missed - the chance for the GENERATOR and MOTOR.
	(T/F) Volta invented the BATTERY. (T/F) If you manually turn a MOTOR you will generate electricity.
	(T/F) A smaller coil next to a larger coil is called a TRANSFORMER. (T/F) If you move an electric charge, a magnetic field is created.
	(T/F) The 'Right hand rule' only pertains to electricity creating magnetism - not magnetism creating electricity. (T/F) To convert 120 volts to 6 volts you can use a TRANSFORMER.
	(T/F) Ohm's Law says that the voltage is equal to the product of the current and resistance. (T/F) Faraday saw a FIELD, where others said there was 'ACTION AT A DISTANCE'.
	(T/F) The 13+ scientists who invented the first main electric devices in the mid-1800's initially did so independently of each other, then greatly helped each other. (T/F) Maxwell figured out the mathematics of Faraday's fields.
	(T/F) In the 'Right hand rule', if your fingers are current - your thumb is resistance. Whose teacher would hit him because he had a speech impediment?
	A Tesla Coil is a tuned ... The solenoid, electric car door lock, and speaker use the principle of the ...
	The Faraday Flashlight, electric wind mill, and microphone use the principle of the ... The AMPLIFIER that increases the voltage of your microphone or guitar pickup uses the principle of the ...

# Electricity & Magnetism: 40 Questions (21-40)

Answer	Question
	Who said that Faraday saw lines of force where mathematicians saw action at a distance?
	(T/F) When Hertz refined EM Frequencies, he gave us radio and TV stations.
	(T/F) Goethe's way of seeing wholes feeds into modern Quantum Physics.
	(T/F) Marconi sent some of the early overseas radio signals from Camp Evans, in Wall, New Jersey.
	(T/F) Benjamin Franklin was known throughout America and Europe as an expert on the new discoveries in electricity.
	(T/F) Nikola Tesla was a master of mechanical things resonating as well as electromagnetic resonance.
	(T/F) Andre Ampere's experiments furthered the study of electric current.
	(T/F) Faraday got the idea of making his own battery when he saw Volta's battery: a room size trough with metal disks in a liquid that could produce a very large spark.
	(T/F) Tesla's alternating current (AC) was found to be too dangerous for America's homes.
	(T/F) Edison won the huge contract to harness the electricity from Niagara Falls.
	(T/F) Ohm's Law relates voltage, current and power.
	(T/F) Galvani invented an instrument where a needle moved because of a tiny change in either electricity or magnetism. This led to the: ammeter, voltmeter, and ohmmeter.
	(T/F) Ben Franklin would shock friends by arranging a group of glass jars in series (each jar containing metal) and storing electric charge in them. He would then invite the guest to touch the electrodes.
	(T/F) Faraday also did chemical experiments with candles, gases, and acids.
	(T/F) Edison would take cat naps with weights in his hands so that he could be awakened when they fell. He would hope to get great ideas from his deeper consciousness.
	Who invented the first radio remote controls?
	Who would take walks, envision entire designs, then come back to the lab and invent.
	Who gave exciting Christmas lectures to teenagers about the new discoveries in electricity and magnetism at the Royal Institute each year?
	Who was so far ahead of his time in connecting biological forms to human thoughts that his work is just now surfacing?
	Who has the most patented inventions?