

History of Electromagnetism

Physics History · Practice Test · 8 Questions

1. Which scientist is famously associated with the 1752 kite experiment involving lightning and electricity?

- A) Benjamin Franklin
- B) Nikola Tesla
- C) Thomas Edison
- D) Michael Faraday

2. Who discovered that an electric current creates a magnetic field by observing a compass needle deflect near a wire?

- A) Hans Christian Oersted
- B) James Clerk Maxwell
- C) Alessandro Volta
- D) Andre-Marie Ampere

3. What device, invented by Alessandro Volta in 1800, is considered the first true battery?

- A) Leyden jar
- B) Voltaic pile
- C) Cathode ray tube
- D) Galvanometer

4. Which scientist formulated the set of equations that mathematically describe how electric and magnetic fields interact?

- A) James Clerk Maxwell
- B) Isaac Newton
- C) Galileo Galilei
- D) Albert Einstein

5. Michael Faraday is credited with the invention of which device that converts mechanical energy into electricity?

- A) Electric motor
- B) Electric generator
- C) Resistor
- D) Transistor

6. In 1820, who formulated the mathematical law describing the magnetic force between two electric currents?

- A) Andre-Marie Ampere
- B) Charles-Augustin de Coulomb
- C) Heinrich Hertz
- D) Georg Ohm

7. What unit of electrical resistance is named after the German physicist who defined the relationship between voltage and current?

- A) Volt
- B) Ampere
- C) Ohm
- D) Watt

8. Heinrich Hertz provided the first experimental proof of the existence of what phenomenon predicted by Maxwell's equations?

- A) Electromagnetic waves
- B) Gravity
- C) Atomic fission
- D) Dark matter