

Questions on electromagnets

Feb 6th, 2020

1. An electromagnet is a type of magnet whose magnetic field is produced by the flow of _____.
2. What happens to the magnetic field when the current is turned off? _____
3. In 1820, a Danish physicist discovered that there was a relationship between electricity and magnetism. What was his name? _____
4. Powerful electromagnets can be turned on and off with the flick of a _____.
5. The strength of an electromagnet can be increased by increasing the number of loops of _____
Around the iron core and by increasing the current or _____
6. Does a cellphone use an electromagnet? _____
7. Name 5 items that contain electromagnets. _____

8. Did Oersted understand why electric current affected a compass needle? _____
9. What invention is Michael Faraday credited with? _____
10. Which scientist discovered the electromagnetic theory? _____
11. Which scientist was the first to satisfactorily demonstrate the existence of [electromagnetic waves](#) by building an apparatus to produce and detect [radio](#) waves? _____