

# Electromagnetism Crossword Clues

## ACROSS

2 Rare earth magnet material  
 8 Buffalo  
 11 British physician William \_?\_ conducted several early investigations of magnetic phenomena  
 13 Device used to determine the direction of a magnetic field  
 15 The division of the police department concerned with internal affairs  
 18 An atom with a number of electrons not equal to its number of protons  
 19 The generation of electric current by moving a conducting wire through a magnetic field, for example  
 20 All magnetic fields result from moving electric \_?\_  
 21 Little wordy witticisms favored by physics teachers  
 24 James Clerk \_?\_ united the sciences of electricity and magnetism  
 26 The unification of electricity and magnetism  
 32 Military store  
 36 Answer to #4 down, in Spanish  
 37 A device that turns mechanical energy into electrical energy  
 38 Original equipment manufacturer  
 40 A custardlike food with a tart flavor, prepared from milk curdled by bacteria  
 41 Maritime distress signal  
 42 Permanent magnets in a motor can be replaced with a field \_?\_  
 43 A more familiar term for caryopsis  
 44 Lines that never meet  
 45 First letter of the Hebrew alphabet  
 46 Center of the hurricane; hole in a needle  
 47 Elephant "tooth"; Fleetwood Mac hit song and album  
 49 She loved change and had no intention of maintaining the status \_?\_  
 50 Magnetic \_?\_ migrates throughout time but is currently located in Hudson Bay  
 52 Answer to #4 down, in French  
 53 End of a bar magnet  
 56 *Exempli gratia*  
 57 The USSR was the \_?\_ of Soviet Socialist Republics  
 58 Adobe Type Manager; automatic teller machine

61 The particle whose translation, rotation, or revolution results in magnetism  
 64 **B** is the \_?\_ for magnetic field strength  
 67 The magnetic properties of rare earth metals arise from the \_?\_ motion of electrons at the atomic level  
 70 A region of space that is altered by the presence of something such as mass, charge, or moving charge  
 72 Causing magnetic domains to \_?\_ is one way to create or strengthen a permanent magnet  
 73 Magnetic metal  
 74 19th century French theoretical physicist, originator of electrodynamic theory; unit of electric current  
 75 A dancing curtain of light caused by the interaction of solar charged particles and the atmosphere  
 76 Theoretically plausible magnetic monopoles have not been observed \_?\_  
 78 It wasn't him, it was \_?\_  
 80 Middle-eastern militant group  
 81 Fredericton is the capitol of this Eastern Canadian province  
 83 He avoided ice cream and cheese because he was \_?\_ intolerant  
 85 Call a sportscast; declare a presidential candidacy  
 86 The moving part of a motor  
 87 A thesaurus is filled with words of this type

## DOWN

1 1/1000th of 1/1000th  
 2 Gypsy, Bedouin, for example  
 3 Iridescent birthstone; sportscar  
 4 Classic progressive rock group with an affirmative name  
 5 Native American corn; Michigan colors \_?\_ and blue  
 6 Shavings of iron used to show the geometry of magnetic fields  
 7 Dwelling  
 9 Magnetism in iron is due to the \_?\_ of unpaired electrons  
 10 1/1,000,000,000  
 12 State of Taiwan's sovereignty, abbreviated  
 14 Fate (Hinduism/Buddhism)  
 16 Magnetic declination can be measured using a \_?\_ needle  
 17 *The Rio Mirada* translates as "The River \_?\_"  
 20 Voltage/Resistance  
 22 A high-coercivity magnetic alloy made of cobalt, nickel, and aluminum

23 The difference between the direction a compass points and true north is known as magnetic \_?\_  
 24 A region in what is now known as Turkey where lodestone was first found  
 25 Encoded vinyl disc properly spun at 33.3 rpm  
 27 Part of a motor needed to switch the direction of current in the armature  
 28 Particles with an isolated north or south magnetic orientation  
 29 Magnetism associated with the Earth  
 30 Magnetic \_?\_ is the angle between the Earth's magnetic field and level ground  
 31 The Earth's magnetic field, as it extends into space and is shaped by the solar wind  
 33 Noble gas used in those new bluish car headlights  
 34 Electrical contacts that slide along the commutator in a motor  
 35 Device used to turn electrical energy into mechanical energy  
 39 San Antonio chapel-turned-fortress  
 40 Young urban professional  
 48 Boxing match outcome  
 49 Tesla is the unit of measure, magnetic field strength is the physical \_?\_  
 51 Unit of electric field strength  
 54 Let sleeping dogs \_?\_  
 55 A ferromagnetic body having only one domain would be a strong \_?\_ magnet  
 57 United States Ship  
 59 A spinning electron is the world's smallest one; the world itself is the world's biggest one  
 60 *Das Boot*, *The Hunt for Red October*, *Crimson Tide*, and *U-571* were \_?\_ movies  
 62 Boat registration designation for California  
 63 Compasses point to this kind of magnetic pole  
 65 Japanese monetary unit  
 66 The D-Day invasion of Normandy was code-named *Operation \_?\_*  
 68 Hurricane in the Pacific  
 69 Legal term for theft  
 70 Ørsted discovered that changing electric fields create magnetic fields; \_?\_ discovered that changing magnetic fields create electric fields  
 71 A body with opposite electric charges or magnetic alignments at opposite ends  
 77 The \_?\_ of my \_?\_ is my friend  
 79 Beatles' hit song, "Eight Days a \_?\_"  
 80 Haircut One Hundred's #1 Hit, "Love \_?\_ One"  
 82 \_?\_ the Clown  
 84 1999 Hillary Swank film, *Boys Don't \_?\_*