Magnetism and Electron Configuration				
Terms:				
Ferromagnetic:				
Paramagnetic:				
To create an explanation for magnetism, let's start with the evidence of ferromagnetic elements and write their electron configurations and some of the elements located around them:				
Elements	Shorthand Electron Configuration	Energy Level Diagr	ams	Pairing of 'd' orbitals
Fe				
Со				
Ni				
Cu				
Based on the magnetism associated with electron spin and the presence of several, an initial explanation is that the unpaired electrons cause the magnetism. However, the other in the same are only paramagnetic. The presence of several may account for some magnetism, but not for the strong The explaination is that are small atoms and are able to themselves in a magnetic field. This allows the individual atoms to influence each other and form A strong external magnet cause the individual so that their orientations are all the same forming a permanent magnet.				
Ferromagnetism is a based on the properties of a, rather than just one				
(a)	unmagnetized	magnetized		
Paramagnetism is also explained as being due to within substances where do not form. In other words, paramagnetism is based on the magnetism of				

Again, the theory of electron configurations is able to at least partially explain an important property of some chemicals. In this case, a full description of each electron, including its spin, is involved in the explanation.