



Magnets and electromagnets

1. Choose the correct word to complete these sentences:

2. Drag ar	nd drop wor weakest	ds from the box t		the sentence	es. molten iron
	tic field	induced	needle	artifici	
permanent	filings	cosmic ra		strongest	nickel
d. The Earth e. The magn f. Small piec g. The Earth	etic force of an es of iron, calle	magnetised, lo	an help us see	the effect of a ma	les. agnetic field. gnet.
		gnetism? Fill in t			

current passes through	them. Watch this	video to see how	v it works:
a. What components ar	e used in the video	to make the ele	ectromagnet?
1	2	3	
b. Are electromagnets j	permanent or indu	ced magnets?	
		(-)	
c. If we want to increas		n electromagnet	t, which 2 of
these things can we do	?		
Use a less powerful ba	attery	Have more	coils of wire
			CHRISTIAN DIVER
Have fewer coils of	wire	Use a sr	naller nail
Use more papercli	ps	Use a more po	owerful battery
		2	
6a. What do the letters	MRI stand for? (W	rite one word pe	r box.)
b. <i>Maglev</i> is an abbrevia	ation of which two	words? (Write o	ne word per box.)
c. Are these statements	s true (T) or false (I	F)?	
c. Are these statements 1. Speakers use magnets	N233 10 20		T F
	s to convert sound in		T F

5. Electromagnets are objects which act like magnets when an electrical