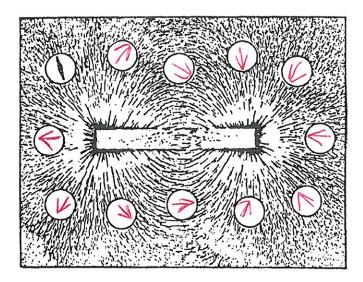
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Physica	
CONCEPTUAL PAYSICS PRACTICE PAGE	
Chapter 24 Magnetism	
Magnetic Fundamentals	
Fill in each blank with the appropriate word.	Al.
1. Attraction or repulsion of charges depends on their signs, po	sitives or negatives. Attraction or
repulsion of magnets depends on their magnetic	;
north or South.	YOU HAVE A MAGNETIC
9,	PERSONALITY!
2. Opposite poles attract; like poles <u>repel</u> .	
3. A magnetic field is produced by the MOTON of electric of	charge.
4. Clusters of magnetically aligned atoms are magnetic	mains.
5. A magnetic Fig. 0 surrounds a current-carrying wire.	
6. When a current-carrying wire is made to form a coil around a	a piece of iron, the result is an
7. A charged particle moving in a magnetic field experiences a contract that is maximum when the charge moves	deflecting force
to the field.	T5- T4
8 A current correinguire experiences a deflecting	111111
8. A current-carrying wire experiences a deflecting that is maximum when the	
0 1 / 1	
wire and magnetic field are Profit War to o	ne another.
9. A simple instrument designed to detect electric current is	the aalvan muter;
when calibrated to measure current, it is an _OMM	when calibrated to
measure voltage, it is a Voltmote.	, , , , , , , , , , , , , , , , , , , ,
0-1,	THEN TO REALLY MAKE
10. The largest size magnet in the world is the	THINGS "SIMPLE," THERE'S THE RIGHT-HAND RULE !

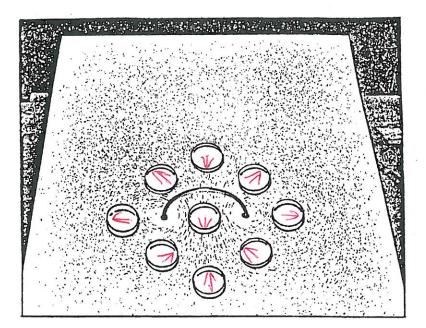
10. The largest size magnet in the world is the

CONCEPTUAL PRISCS PRACTICE PAGE

11. The illlustration below is similar to Figure 24.2 in your textbook. Iron filings trace out patterns of magnetic field lines about a bar magnet. In the field are some magnetic compasses. The compass needle in only one compass is shown. Draw in the needles with proper orientation in the other compasses.



12. The illustration below is similar to Figure 24.10 (center) in your textbook. Iron filings trace out the magnetic field pattern about the loop of current-carrying wire. Draw in the compass needle orientations for all the compasses.



CONCEPTUAL PHYSICS PRACTICE PAGE

Chapter 25 Electromagnetic Induction Faraday's Law

Hans Christian Oersted discovered that magnetism and electricity are

(related) (independent of each other).

Magnetism is produced by-

(batteries) (the motion of electric charges)





Faraday and Henry discovered that electric current can be produced by

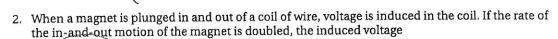
(batteries) (motion of a magnet).

More specifically, voltage is induced in a loop of wire if there is a change in the

(batteries) (magnetic field in the loop).

This phenomenon is called

(electromagnetism) (electromagnetic induction).



(doubles) (halves) (remains the same).

If instead the number of loops in the coil is doubled, the induced voltage (doubles) (halves) (remains the same).

3. A rapidly changing magnetic field in any region of space induces a rapidly changing (electric field) (magnetic field) (gravitational field)

which in turn induces a rapidly changing

(magnetic field) (electric field) (baseball field).

This generation and regeneration of electric and magnetic fields makes up

(electromagnetic waves) (sound waves) (both of these).

