

Automotive Technology 7th Edition
Chapter 44: Magnetism and Electromagnetism
Matching Quiz

Name: _____ Date: _____

Matching: Choose the item in column 2 that best matches each item in column 1.

- | | | |
|---------------------------------------|--|-----------|
| 1. Magnetism | A. The opposition to the magnetic lines of force. | 1. _____ |
| 2. Magnetic Flux | B. A temporary magnet created by current flowing through a coil of wire. | 2. _____ |
| 3. Permeability | C. The force that opposes the change in current flow in an inductor. | 3. _____ |
| 4. Reluctance | D. The lines of force that extend from a magnet. | 4. _____ |
| 5. Electromagnet | E. A form of energy caused by the motion of electrons in certain materials, recognized by its attraction to other materials. | 5. _____ |
| 6. Relay | F. The ability of a material to become magnetized. | 6. _____ |
| 7. Solenoid | G. Converts mechanical energy into electrical energy. | 7. _____ |
| 8. Counter Electromotive Force (CEMF) | H. An electromagnetic device that uses a movable core to do work. | 8. _____ |
| 9. Mutual Induction | I. An electromagnetic switch that uses a movable armature. | 9. _____ |
| 10. Generator | J. The principle where a changing magnetic field in one coil induces a voltage in a nearby coil. | 10. _____ |

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Answer Key

Answer Key:

1. E
2. D
3. F
4. A
5. B
6. I
7. H
8. C
9. J
10. G