

The Truth About Magnets Answer Key

Directions: Magnetism is an invisible force that attracts or repels! Can you identify the true statements about magnetism? Mark the true statements with a T and mark the false statements with an F. After making all the statements, go back and modify the false statements so they are correct.

- _____ 1. If a magnet is floated on a cork in water and balanced on a sharp point, one end will point east and the other will point west.
- _____ 2. James Clerk Maxwell proposed the idea of electromagnetism.
- _____ 3. Magnets are used in electric motors.
- _____ 4. Iron is a permanent magnet.
- _____ 5. The magnetic field is strongest around the poles of a magnet.
- _____ 6. An electric charge creates a magnetic field.
- _____ 7. The core of an electromagnet is a piece of steel put in the center of the coil.
- _____ 8. An electromagnet is a coil of wire with a current flowing through it.
- _____ 9. Magnetic poles that are alike attract one another.
- _____ 10. A magnet is an object that can exert a force on another metal.
- _____ 11. A magnetic field is a region around a magnet where the magnetic force acts.
- _____ 12. One end of a magnet has a stronger magnetic force than another.
- _____ 13. Unlike magnetic poles attract one another.
- _____ 14. Earth is considered a magnet.
- _____ 15. Magnetic poles that are different repel one another.

False Statements:

Possible Correction:

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