

5 • Reactions in Aqueous Solution

OXIDATION - REDUCTION VIDEO

1. When metal atoms give up their electrons to other elements, they are undergoing _____.
2. One way to keep oxygen and moisture away from a metal is to _____ it.
3. Copper and _____ both oxidize to form a tough protective layer that keeps out oxygen & moisture.
4. When magnesium burns, it _____ electrons.
5. Another name for an electrochemical cell is a _____.
6. The process by which a zinc atom becomes a zinc ion and loses two electrons is called _____.
7. The positively charged copper ions are reduced because they _____ two electrons to form copper atoms.
8. All batteries must contain two materials with different tendencies to give up _____.
9. A significant step in the development of the heart pacemaker was the introduction of the _____ battery.
10. Car batteries, called lead storage batteries, use an alternator to push electrons in the opposite direction in order to _____ the battery.
11. In industry, _____ is used to extract aluminum from aluminum oxide.
12. Chemical reactions, involving oxidation and reduction can be used to change chemical energy into _____ for doing work.

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