

1. When an electron is removed from a molecule, the molecule is _____ **oxidized** _____ and the amount of potential energy in the molecule (**increases/decreases**). When an electron is added to a molecule, it is said to be _____ **reduced** _____ and the amount of potential energy in the molecule (**increases/decreases**).
2. When you track energy transfers through a biological system, you are tracking the path of _____ **electrons** _____.
3. The principal electron carriers in cellular respiration are derivatives of _____ **nucleotides** _____.
4. NAD is derived from _____ **vitamin B₃, niacin** _____. The oxidized form is _____ **NAD⁺** _____ and the reduced form is _____ **NADH** _____.
5. FAD is derived from _____ **vitamin B₂, also called riboflavin** _____.
6. Why can a cell not store free energy for use, but must instead rely on ATP?

Excess free energy would result in an increase of heat in the cell, which would result in excessive thermal motion that could damage and then destroy the cell. Rather, a cell must be able to handle that energy in a way that enables the cell to store energy safely and release it for use only as needed.

7. In nearly every living organism, the energy needed to generate ATP predominantly comes from _____ **glucose** _____, _____ **fructose** _____, and _____ **galactose** _____.
8. _____ **Phosphorylation** _____ is the addition of a phosphate group to another molecule.

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Larry G. Sellers



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