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# Matter

Anything that has mass and takes up space

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# Model

An explanation or representation of something that cannot be seen

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# Element

A collection of atoms that all have the same number of protons

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# Molecules

Chemicals that result from atoms linking together

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# Physical change

A change that affects the appearance but not the chemical makeup of a substance

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# Chemical change

A change that alters the makeup of the elements or molecules of a substance

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# Phase

One of three forms- solid, liquid, or gas- which every substance is capable of attaining

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# Diffusion

The random motion of molecules from an area of high concentration to an area of low concentration

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# Concentration

A measurement of how much solute exists within a certain volume of solvent

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# Semipermeable membrane

A membrane that allows some molecules to pass through but does not allow other molecules pass through

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# Osmosis

The tendency of a solvent to travel across a semipermeable membrane into areas of higher solute concentration

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# Catalyst

A substance that alters the speed of a chemical reaction but is not used up in the process

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# Organic molecule

A molecule that contains only carbon and any of the following: hydrogen, oxygen, nitrogen, sulfur, and/or phosphorous

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# Biosynthesis

The process by which living organisms produce larger molecules from smaller ones

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# Isomers

Two different molecules that have the same chemical formula

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<b>Monosaccharides</b>	Simple carbohydrates that contain 3 to 10 atoms
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<b>Disaccharides</b>	Carbohydrates that are made up of two monosaccharides
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<b>Polysaccharides</b>	Carbohydrates that are made up of more than two monosaccharides
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<b>Dehydration Reaction</b>	A chemical reaction in which molecules combine by moving water
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<b>Hydrolysis</b>	Breaking down complex molecules by the chemical addition of water
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# Hydrophobic

Lacking any affinity to water

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# Saturated fat

A lipid made from fatty acids that have no double bonds between carbon atoms

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# Unsaturated fat

A lipid made from fatty acids that have at least one double bond between carbon atoms

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# Peptide bond

A bond that links amino acids together in a protein

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# Hydrogen bond

A strong attraction between hydrogen atoms and certain other atoms (usually oxygen or nitrogen) in specific molecules

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