# Biology Midterm Study Guide

Differentiate between test (independent) and outcome (dependent) variables.	The <b>independent</b> variable is the stand-alone variable that is altered to view its effects on the dependent variable.  The <b>dependent</b> variable is the one that is measured and tested in an experiment and is NOT controlled, but rather, a direct result of the independent variable.
What is a theory? How is that different from a law?	A <b>theory</b> is a scientific explanation for a patterns, events, and experiences in nature that is supported by multiple lines of evidence and hypotheses that have been tested repeatedly. It is widely accepted, susceptible to change, and can make predictions. <b>Laws</b> are generalizations and principals derived from scientific facts that describe how the natural world behaves under certain conditions. Laws are NOT susceptible to change, and are unrelated to theories.
Differentiate polar vs nonpolar molecules.	Polar molecules have positive and negative charges and cause an unequal sharing of electrons between two molecules. Nonpolar molecules have neutral charges and cause an equal sharing of electrons between two molecules.
How does the structure of water contribute to its unique properties?	Water is a polar molecule (two poles), which allows it to dissolve many solutes associated with cells (solubility). It also can form hydrogen bonds by joining the negatively charged oxygen from H2O to the positively charged hydrogens. This enables them to have a high heat capacity and both cohesive and adhesive forces. The ability of water to take form in three states of matter is also attributed to their density.
How does water's polarity influence its properties as a solvent?	Since water is polar, it will be able to blend and mix with any ionic substance. This is because a polar molecule has two oppositely charged poles, which both attracts the opposite poles of another, different molecule. For example, in salt, the positive sodium will be attracted to the negative oxygen, and the negative chloride will be attracted to the positive hydrogen atoms.
Adhesion vs cohesion.	Adhesion is the attraction between different molecules  Cohesion is the attraction between similar molecules.
What are the 4 major groups of biological molecules? Composition?	Carbohydrates; monosaccharides (C, H, O) Lipids; fatty acids (C, H, O) Proteins; amino acids (C, H, O, N) Nucleic Acids; nucleotides (C, H, O, N, P)

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