

Biology 151 Exam 1 Study Guide

- Know the important characteristics of water:
  - Polar molecule which is formed from hydrogen bonds which means that one molecule is positive and the other one is negative. Allows water molecules to be attracted to many different types of molecules
  - Water is a good solvent which means that it is easily dissolvable in other solutions which creates a solution. This means that water helps transport other materials in living organisms
  - Water has cohesion and adhesion properties. This holds the water together to create surface tension. This means that water can be transported from the roots of plants to their leaves. H bonds v attracted to each other
  - Water has a high heat capacity. This helps regulate body temperature. Means that it takes more energy to increase the temperature. Ex. the ocean is cooler and bodies of lake keep the temperature cool because they are absorbing the water and it takes a lot of heat in. (high heat of vaporization) uses this to keep cool such as sweating. Water takes in the energy from the heat to cool it down.
  - Water is less dense as it freezes. The water molecules are more spread out. Creates insulation in large bodies of water to allow organisms to survive.
- Know the characteristics of living organisms
  - organisms sense and respond to internal and external (sense something going on around them) environmental stimuli. Conscious or unconscious decision.
    - Sensory organs are the easiest way to understand this. Can detect and respond to external stim like light, sound
    - Plants respond to ex stim (plants to light)
    - Int stim eg. hungry, pain, chem receptors

# Study Guide Biology 151 Answers

**Douglas C. Eaton, John Pooler, Arthur J.  
Vander**

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Queries ,1886

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The Compatibility of Evolution and Design E. V. R. Kojonen, 2021-08-10 This book challenges the widespread assumption of the incompatibility of evolution and the biological design argument Kojonen analyzes the traditional arguments for incompatibility and argues for salvaging the idea of design in a way that is fully compatible with evolutionary biology Relating current views to their intellectual history Kojonen steers a course that avoids common pitfalls such as the problems of the God of the gaps the problem of natural evil and the traditional Humean and Darwinian critiques The resulting deconstruction of the opposition between evolution and design has the potential to transform this important debate

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