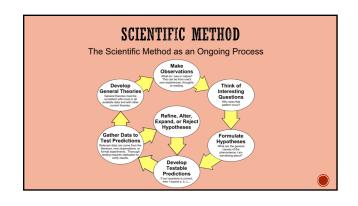
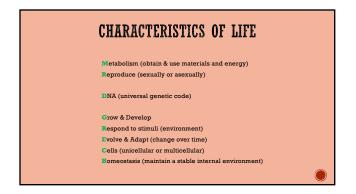


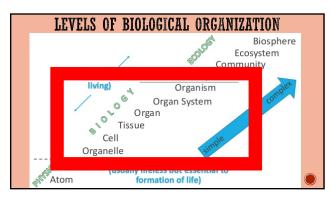
UNIT 1: INTRODUCTION TO SCIENCE & CHARACTERISTICS OF LIFE

- Distinguish between the scientific terms: hypothesis, inference, law, theory, principle, fact, and observation).
- Describe the characteristics of life shared by all prokaryotic and eukaryotic organisms.
- Describe and interpret relationships between structure and function at various levels of biological organization (organelles, cells, tissues, organs, organ systems, and multicellular organisms).

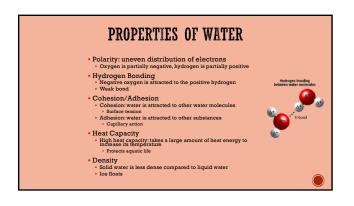
SCIENTIFIC METHOD TERMINOLOGY Observation: process of noticing and describing events or processes in a careful, orderly way Uses 5 senses Inference: a logical interpretation based on prior knowledge and experience Hypothesis: possible explanation for a set of observations or possible answer to a scientific question Theory: explains why something happens Well-tested Law/Principle: describes a pattern or event in nature Well-tested Fact: a statement that is consistent with reality or can be proven with evidence.

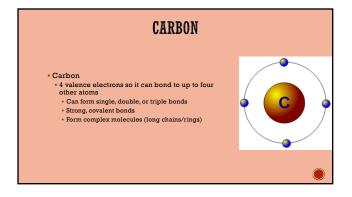


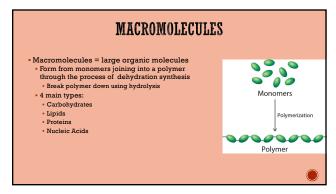


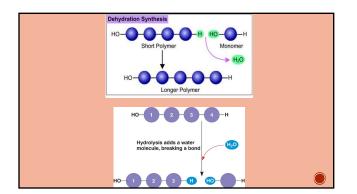


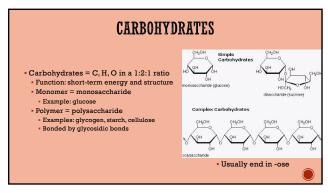
*Describe the unique properties of water and how these properties support life on Earth (freezing point, high specific hear, cohesion) *Explain how carbon is uniquely suited to form biological macromolecules. *Describe how macromolecules form from monomers. *Compare the structure and function of carbohydrates, lipids, proteins, and nucleic acids in organisms. *Describe the role of an enzyme as a catalyst in regulating a specific biochemical reaction. *Explain how factors such as pH, temperature, and concentration levels can affect enzyme function.

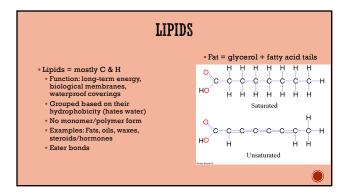


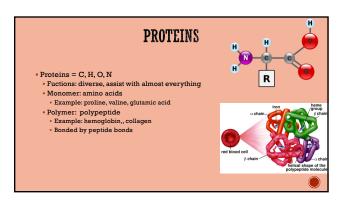


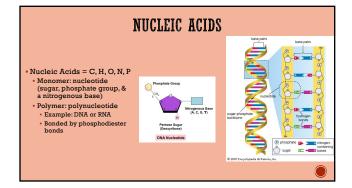


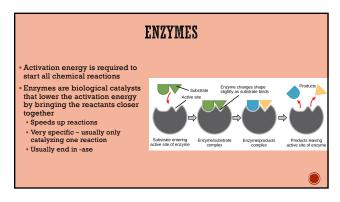


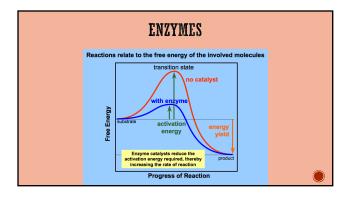


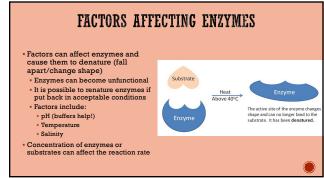












VIDEO REVIEW Ameoba Sisters - Characteristics of Life Ameoba Sisters - Levels of Biological Organization Ameoba Sisters - Properties of Water Ameoba Sisters - Macromolecules Ameoba Sisters - Enzymes