

<p>Unit 1 Life, Matter, and Energy</p> <p>An Overview of Life Life and Its Designer Characteristics of Living Things Classification of Living Things</p> <p>Biochemistry Matter and Energy Chemical Reactions Water Carbohydrates and Lipids Proteins and Nucleic Acids</p> <p>Energy and Matter Flow in an Ecosystem The Web of Life Energy Flow Carbon Cycle Nitrogen and Phosphorus Cycles</p>	<p>Unit 2 Ecology</p> <p>Biomes and Ecosystems Introduction to Biomes and Ecosystems Biomes Change and Succession in Ecosystems</p> <p>Communities and Populations Community Interactions Symbiosis Species Diversity Population Requirements, Density, and Distribution Population Change</p> <p>Human Interactions With the Biosphere The Importance of Biodiversity Threats to Biodiversity Stewardship of Biodiversity</p>	<p>Unit 3 Cells and Cell Processes</p> <p>Introduction to the Cell Introduction to the Cell Structure of the Cell Organelles Cell Specialization</p> <p>Cellular Processes Cell Transport Cell Signaling Cellular Respiration</p> <p>The Cell's Role in Genetics DNA Protein Synthesis Mitosis Meiosis</p>	<p>Unit 4 Genetics</p> <p>Mendelian Genetics Mendel – Father of Modern Genetics Mendel's Principles Using Mendel's Principles More Complex Crosses and Independent Assortment</p> <p>Advanced Genetics What Mendel Did Not Know Changes in Genes and Chromosomes Factors That Influence Human Genetics</p> <p>Limitations of Genetic Diversity Natural Selection Speciation The Development of Evolutionary Theory The Limit of Genetic Change The Unlikelihood of Evolutionary Theory</p>	<p>Unit 5 Plants: Form and Function</p> <p>Plants and Their Purpose Plants and the Environment Photosynthesis: Light-Dependent Phase Photosynthesis: Light-Independent Phase</p> <p>Plant Structure Introduction to Plant Structure Leaves Stems Roots</p> <p>Plants and Their Environment Plant Design for Fitness Growth Responses to Abiotic Factors Physiological Responses to Abiotic Factors Plant Defense Beneficial Plant Interactions</p>
<p>Unit 6 Plants: Reproduction and Cultivation</p> <p>Plant Diversity Plant Life Cycle and Diversity Bryophytes Seedless Vascular Plants Gymnosperms Angiosperms</p> <p>Plant Reproduction Flowers Fruits and Seeds Asexual Reproduction</p> <p>Plant–Human Interactions The Green Revolution and Intensive Agriculture Sustainable Agriculture Ecological Principles in Agriculture Soil and Plant Nutrition</p>	<p>Unit 7 Fungi, Microorganisms, and Viruses</p> <p>Fungi Characteristics of Fungi Fungus Reproduction and Classification Fungi in Their Environment Fungi and Humans</p> <p>Protists Fungus-Like Protists Algae Protozoa</p> <p>Bacteria and Viruses Bacteria: Characteristics and Classification Bacteria Diversity Viruses Bacterial and Viral Disease; Vaccines</p>	<p>Unit 8 Invertebrates</p> <p>Introduction to Animals; Invertebrates Introduction to Animals Sponges Cnidarians</p> <p>More Invertebrates Flatworms and Roundworms Segmented Worms Echinoderms Mollusks</p> <p>Arthropods Introduction to Arthropods Crustaceans and Myriapods Arachnids Insects: Classification and Life Cycle Insects in Their Environment</p>	<p>Unit 9 Vertebrates</p> <p>Introduction to Vertebrates; Fish Chordate Classification and Characteristics Invertebrate and Vertebrate Chordates Fish: Characteristics and Classification Fish in Their Environment</p> <p>Amphibians and Reptiles Amphibians: Characteristics and Classification Amphibians in Their Environment Reptiles: Characteristics and Classification Reptiles in Their Environment</p> <p>Birds and Mammals Birds: Characteristics and Classification Birds in Their Environment Mammals: Characteristics and Classification Mammals in Their Environment</p>	<p>Unit 10 Animal Processes and Behavior</p> <p>Homeostasis and Exchange Introduction to Homeostasis Digestion and Absorption Gas Exchange Excretion Circulation</p> <p>Control of Homeostasis Chemical Control of Homeostasis Neural Control of Homeostasis Defense and Immunity Muscles and Skeletons</p> <p>Animal Behavior Introduction to Animal Behavior Social Behavior Behavioral Adaptations to the Environment</p>