

COURSE CURRICULUM MAP

Biology

| | Weeks 1-3 | Weeks 4 |
|------------------------------|---|--|
| Content/ Skills | <ul style="list-style-type: none"> • Metric System and safety • Creation and interpretation of data in graphs, tables, and charts <p>Scientific Method, Experimental Design</p> | <ul style="list-style-type: none"> • Basic Biochemistry: <ul style="list-style-type: none"> -water molecule - ionic and covalent bonding -polarity -atomic structure -pH • |
| PASS Process Standards | 1.3, 3.2, 3.4, 3.5, 4.2, 4.3, 6.1,6.2 | 1.1,2.2 |
| PASS Content Standards | | 1.1, 1.3 |

| | Weeks 5-6 | Weeks 7-9 | Weeks 10-12 | Weeks 13-14 | Weeks 15-18 |
|------------------------------|---|---|---|--|---|
| Content/ Skills | Cells & Cellular Function | Cellular Respiration & Photosynthesis | Cellular Division | Genetics | DNA |
| Skills | <ul style="list-style-type: none"> •History •Cell Theory •Structure/Function (Anatomy) •Cell membrane & transport | <ul style="list-style-type: none"> • Identifying organelles responsible for processes • Understanding basic biochemical processes Calvin Cycle & Krebs Cycle, chemical equations • Relating importance to cell function and the living systems | <ul style="list-style-type: none"> • Cell Growth • Cell Cycle • Mitosis • Meiosis • Technology | <ul style="list-style-type: none"> • Disorders & Diseases • Mendelian Genetics • Technology | <ul style="list-style-type: none"> • DNA-Molecular Structure/Function • Protein Synthesis • History • Types & Function of RNA • Technology |
| PASS Process Standards | 5.1, 5.2, 6.3 | 4.3 5.1, 5.2 6.3, 6.4 | 3.3 4.1, 4.3, 4.8 5.2 | 3.3 4.1, 4.3, 4.8 5.2 | 5.1, 5.2 |
| PASS Content Standards | 1.1, 1.2 | 5.1, 5.2 | 2.2 | 2.2 | 2.1 |

| | Weeks 19-21 | Weeks 22-23 | Weeks 24-25 | Weeks 26-33 | Weeks 34-35 |
|------------------------------|--|--|--|---|--|
| Content/ Skills | <ul style="list-style-type: none"> • History of life • Natural selection • Classification | <ul style="list-style-type: none"> • Population growth, carrying capacity, growth factors • Human populations • | <ul style="list-style-type: none"> • Biotic and abiotic factors • Characteristics of life, organization, niches, relationships • Energy flow, nutrient cycles • Biomes | <ul style="list-style-type: none"> • Kingdom Survey • Review • Identify life systems in relation to structure & function • Compare & Contrast characteristics of all kingdoms • Bacteria, Protists, Fungi, Invertebrates, Vertebrates • Dissections | <ul style="list-style-type: none"> • EOI Review • • Practice Tests • • Testing • |
| PASS Process Standards | 4.5 | 5.1, 5.3 | 1.2, 2.1 | • 2.1, 2.2 | |
| PASS Process Standards | 3.1, 3.2 | 3.2 | 4.1, 5.2, 5.3 | <ul style="list-style-type: none"> • 3.1, 3.2 • 6.1, 6.2 • | |

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