



Course Title: Biology II Honors

Content Area: Science

Grade Level: 10-12

Scope and Sequence

| Unit or Topic | Standards (Secondary Standards: Science and Technology and Engineering) | Length of Time | Key Content | Assessment Tools | Scaffolding Strategies (Interventions, Special Education) | Resources & Materials |
|-----------------------------|---|----------------|--|---|--|---|
| Themes in the study of life | 3.1.B.A1 3.1.B.A8 3.1.B.C2 | 3 weeks | -Unifying themes of biology | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
| Chemistry of Life | 3.1.B.A2 3.1.B.A7 3.1.B.A8 | 4 weeks | -Elements and compounds -Chemical bonding -Organic chemistry -Biological macromolecules | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
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| Cellular Structure | 3.1.B.A5 | 5 weeks | -Eukaryotic cellular structure -Membrane structure and function | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
| Bioenergetics | 3.1.B.A2 3.1.B.A5 | 4 weeks | -Laws of Thermodynamics -Cellular respiration -Photosynthesis | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
| Cell Growth and Reproduction | 3.1.B.A.3 3.1.B.A4 3.1.B.B1 3.1.B.B2 3.1.B.B4 | 5 weeks | -Cell cycle -Mitosis -Meiosis | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
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| Genetics | 3.1.B.B1 3.1.B.B2 3.1.B.B4 3.1.B.B5 | 6 weeks | -Patterns of inheritance -Chromosome structure -Genetic engineering | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
| Evolutionary History | 3.1.B.C1 3.1.B.C3 | 3 weeks | -Binomial nomenclature -Phylogenetics -Cladograms | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |
| Animal Form and Function | 3.1.B.A8 | 6 weeks | -Animal form and function -Anatomy and physiology of the -Digestive system -Circulatory system -Respiratory System -Immune System | Teacher created assessments -Test -Quizzes -Laboratories | -Classroom resources and study aides available through Blackboard | Textbook: Campbell: <i>Biology 12th Ed. AP Ed.</i> -On-line virtual laboratories -Teacher created laboratories/activities -Material posted on Blackboard |