

2015-2016 Biology Semester 2 Benchmark Review

General Resources

www.classzone.com - Sign in with username: bio1student password: ilovebio; select Florida, High School Science, and select the 2012 textbook. Select the correct chapter from the drop down menu on the left and then select the option you want (Interactive Review, Animated Biology, or Labs).

www.brainpop.com - Sign in with username: gibbs_hs and password: pinellas52

<https://ecsd-fl.schoolloop.com/BiologyEOCReview> - Select the benchmark you wish to review from the menu bar on the left, and then select the tutorial you wish to view.

Directions: Your teacher may assign you particular Benchmarks & Topics to review, based on assessment data. To help master that benchmark, select the links from left to right through the row completing each of the review materials.

Benchmark & Topic	Green Alligator Textbook & Interactive Reader: Read the corresponding pages in the text and complete any questions in the Interactive Reader.	Khan Academy: Read, watch the videos while taking notes, and answer any Skills Check Questions.	Video Clip or Animation/Tutorial: Watch the videos and/or animations.	Interactive Game or Lab: Complete the lab or play the game for each benchmark you need to review.	Vocabulary Quizlets: Review the vocabulary flashcards.	Exit Questions: Provide a detailed answer to each exit question.	Self-Assessment: Test yourself with these sample questions.
<p>SC.912.L.15.1 Evidence of Evolution</p> <p>Also assesses SC.912.L.15.10 Hominid Evolution</p>	<p>Text: Chapter 10, Section 10.4, pages 310-313; Chapter 12, Section 12.6, pages 379-383</p> <p>IR: pages 164-165; 173-175; 215-218</p>		<p>Evolution in 2 Minutes</p> <p>Brain Pop: Human Evolution</p> <p>Bozeman: Evidence for Evolution</p> <p>Fossils: Rocking the Earth</p> <p>DNA Spells Evolution</p> <p>Biogeography</p> <p>Crash Course: Evolution</p> <p>Stated Clearly: Evidence for Evolution</p> <p>Stated Clearly: What is Evolution?</p> <p>Stated Clearly: Does the Theory of Evolution Really Matter?</p>	<p>NOVA: Evolution Lab</p> <p>NOVA: Human Evolution Interactive</p>	<p>Theory of Evolution</p>	<p>How is the scientific theory of evolution supported by the fossil record, comparative anatomy, comparative embryology, biogeography, molecular biology, and observable evolutionary change?</p> <p>What are examples of and trends in hominid evolution from early ancestors to modern humans?</p>	<p>Sample Evolution Questions</p>

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<p>SC.912.L.15.13 Natural Selection</p> <p>Also Assesses:</p> <p>SC.912.L.15.14 Genetic Drift & Gene Flow</p> <p>SC.912.L.15.15 Mutation & Genetic Recombination</p>	<p>Text: Chapter 10, Section 10.3, pages 304-309; Chapter 11, Section 11.3, pages 335-337 AND page 343</p> <p>IR: pages 170-172</p>	<p>Introduction to Evolution & Natural Selection Video</p> <p>Natural Selection & the Owl Butterfly</p> <p>Variation in a Species</p>	<p>Brain Pop: Natural Selection</p> <p>Learn Biology: Natural Selection</p> <p>Amoeba Sisters: Natural Selection & Bacterial Resistance</p> <p>Crash Course: Natural Selection</p> <p>Stated Clearly: Natural Selection</p> <p>Stated Clearly: How does new Genetic Information Evolve?</p>	<p>Charles Darwin Game</p>	<p>Natural Selection</p>	<p>What conditions are necessary for the process of natural selection to occur?</p> <p>How do genetic drift, gene flow, nonrandom mating result in evolutionary change?</p> <p>How is genetic variation increased by mutations and genetic recombination?</p>	<p>Sample Natural Selection Questions</p>
<p>SC.912.L.15.8 Origin of Life</p>	<p>Text: Chapter 12, Section 12.3, pages 368-371</p> <p>IR: pages 207-209</p>		<p>Miller Experiment Animation</p> <p>RNA Origin of Life</p> <p>Stated Clearly: Miller-Urey</p> <p>Stated Clearly: Chemical Evolution</p> <p>Stated Clearly: Origin of Life</p>		<p>Origin of Life</p>	<p>How do scientists explain the origin of life on Earth?</p> <p>What situations or conditions contributed to the beginning of life on Earth?</p>	<p>Sample Origin of Life Questions</p>

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SC.912.L.15.6 Domains & Kingdoms Also Assesses: SC.912.L.15.4 Organism Classification SC.912.L.15.5 Changes to Classification	Text: Chapter 17, Section 17.4, pages 533-535 IR: pages 287; 292-294	Taxonomy & The Tree of Life Video	Brain Pop: Diversity of Life Brain Pop: 6 Kingdoms Learn Biology: Classification-Domains Crash Course: Taxonomy Bozeman Science: Cladograms	Class Zone Ch 17 Interactive Review Review Game Zone: Classification	Classification	What are the distinguishing characteristics of the domains and kingdoms of living organisms? What is the determining factor for how organisms are classified? What is the reason for change to how organisms are classified?	Sample Classification Questions
SC.912.L.14.7 Plant Structure & Function	Text: Chapter 21, Sections 21.1, 21.2, 21.3, 21.4, pages 640-655; Chapter 22, Section 22.2, pages 668-672 IR: pages 345-358; 364-367		Brain Pop: Plant Growth Brain Pop: Seed Plants Parts of a Flower Tutorial Amoeba Sisters: Plant Structure and Adaptations Amoeba Sisters: Plant Reproduction in Angiosperms	Virtual Lab: Plant Transpiration	Plant Structures	How do plant structures (roots, stems, leaves, flowers, fruits, cones, meristematic, ground dermal, vascular tissues, cambium, guard cells, phloem, seed, stomata, xylem) contribute to their role in photosynthesis, cellular respiration, transpiration, and/or reproduction?	Sample Plant Structure Questions

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SC.912.L.17.9 Energy Transfer Also Assesses: SC.912.E.7.1 Biogeochemical Cycles	Text: Chapter 13, Sect 13.6, pages 417-419; Sect 13.5, pages 412 & 414; Sect 13.4, pages 408-411 IR: pages 228-233; 236-238		Food Chain Song TED ed: Dead Stuff Learn Biology: Trophic Structure Ecological Pyramids Keeping up with Carbon Brain Pop: Carbon Cycle Brain Pop: Water Cycle Amoeba Sisters: Food Webs & Energy Pyramids	Virtual Lab: Energy Transfer	Trophic Levels	How does energy travel through the trophic levels in a food web or energy pyramid? How does matter move through the carbon and nitrogen cycles?	Sample Food Webs & Energy Transfer Questions

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<p>SC.912.L.17.5 Population Size</p> <p>Also Assesses:</p> <p>SC.912.L.17.2 Life in Aquatic Systems</p> <p>SC.912.L.17.4 Changes in Ecosystems</p> <p>SC.912.L.17.8 Loss of Biodiversity</p>	<p>Text: Chapter 14, Section 14.4, pages 440-444;</p> <p>IR: pages 248-250</p>		<p>Brain Pop: Population Growth</p> <p>Biodiversity</p> <p>Limiting Factor</p> <p>Invasive Species</p> <p>Amoeba Sister: Ecological Succession</p>	<p>Virtual Lab: Population Biology</p>	<p>Carrying Capacity</p>	<p>How is population size determined by: births, deaths, immigration, emigration, and limiting factors that determine carrying capacity?</p> <p>How do chemistry, geography, light, depth, salinity, and temperature impact organisms in aquatic systems?</p> <p>How do seasonal variation, climate change and succession impact changes to ecosystems?</p> <p>What are some consequences of the losses of biodiversity due to catastrophic events, climate change, human activity, and the introduction of invasive, nonnative species?</p>	<p>Sample Population Size Questions</p>

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<p>SC.912.L.17.20 Human Impact</p> <p>Also Assesses:</p> <p>SC.912.L.17.11 Natural Resources</p> <p>SC.912.L.17.13 Environmental Monitoring</p>	<p>Text: Chapter 16, Section 16.1, pages 484-487; Section 16.5, pages 502-505</p> <p>IR: pages 269-271; 280-281</p>		<p>Sustainability</p> <p>Brain Pop: Natural Resources</p>	<p>The Fish Game</p>	<p>Human Impact</p>	<p>In what ways do human lifestyles impact sustainability?</p> <p>What are some costs and benefits of using various renewable and nonrenewable resources?</p> <p>Why should specific environmental parameters be monitored when making policy decisions?</p>	<p>Sample Human Impact Questions</p>

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SC.912.L.14.52 Immune System Functions Also Assesses: SC.912.L.14.6 Health	Text: Chapter 31, Section 31.3 & 31.4, pages 762-768 IR: pages 413-419	Role of Phagocytes in Nonspecific Immunity Video Types of Immune Responses Video	Brain Pop: Immune System The Immune System Brain Pop: Vaccines How the Immune System Works	Virtual Lab: Pathology	Immune System	What are the basic functions of the human immune system, including specific and non-specific response? What is the basic function of a vaccine? An antibiotic? How do genetic factors, environmental factors, and pathogenic agents impact human health from an individual and societal perspective?	Sample Immune System Questions
SC.912.L.14.26 Brain Parts	Text: Chapter 29, Section 29.4, pages 727-728 IR: pages 391-392		Brain Parts Song Brain Pop: Brain	Match A Brain	Brain Structure	Where, on a diagram, are the following brain parts located: cerebrum, cerebellum, pons, medulla oblongata, brain stem, frontal lobe, parietal lobe, occipital lobe, and temporal lobe?	Sample Brain Parts Question
SC.912.L.14.36 Cardiovascular System	Text: Chapter 30, Section 30.4, pages 747-748 IR: pages 406-407		Brain Pop: Blood Pressure	Virtual Lab: Blood Pressure	Blood Flow	What is the impact of blood pressure, blood volume, resistance, disease & exercise on blood flow?	Sample Cardiovascular System Questions

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SC.912.L.16.13 Reproductive System	Text: Chapter 34, Sections 34.1, 34.2 & 34.3, pages 788 -803 IR: pages 432-441		Brain Pop: Reproductive System Brain Pop: Fetal Development Human Development Fertilization & Fetal Development	Male Reproductive System Matching Female Reproductive System Matching	Reproduction & Development	What are the locations, on a diagram, and functions of the penis, vas deferens, seminal vesicle, prostate gland, urethra, epididymis, scrotum, testes, vagina, uterus, ovaries, oviduct (fallopian tube), cervix)? How do the placenta, umbilical cord, amniotic fluid, and amniotic sac are impact the development of the fetus? What is the role of hormones human reproductive system? What are key events during human development: Implantation through neurulation, zygote stage through the end of the third trimester & birth?	Sample Reproductive System Questions