General Resources

<u>www.classzone.com</u> - 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 video or animation/tutorial.	Online Interactive Game or Lab: Complete the lab or play the game.	Vocabulary Quizlets: Review the vocabulary flashcards.	Exit Questions: Provide a detailed answer to each exit question.	Self-Assessment: Test yourself with these sample questions.
SC.912.L.18.1 Macromolecules	Text: Chapter 2, Sections 2.3, pages 44-48 IR: pages 25-29	Intro to Macromolecules Quick Read Carbohydrate Structure Video Lipid Structure Video DNA Structure Video RNA Structure Video Amino Acid/Protein Video	Biological Molecules-You are what you eat Macromolecules Video Refresher Brainpop: Body Chemistry Macromolecules Animation	Macromolecule virtual lab	Organic molecules	What are the four categories of macromolecules? How can you describe the basic molecular structure of each? What are the functions of each?	Sample Macromolecules & Enzymes Questions

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Also assesses SC.912.L.18.11 Enzymes	Text: Chapter 2, Section 2.5, pages 54-59 IR: pages 33-34	Activation Energy Quick Read	Enzymes and Pac-Man Video Refresher	Bioman: Enzymatic	Enzymes	How do enzymes impact the biochemical reactions that take place in our body? How do factors such as pH and temperature affect enzyme activity?	Sample Macromolecules & Enzymes Questions
SC.912.L.18.12 Properties of Water	Text: Chapter 2, Section 2.2, pages 40-42 IR: pages 22-24	Properties of Water & Hydrogen Bond Quick Read Hydrogen Bond in Water Video Water as a Solvent Video	Brainpop: Water Properties of Water animation	Braingenie: Water Properties	Properties of Water	What are the unique properties of water that make it essential to life?	Sample Properties of Water Questions
		Liquid Water more Dense than Ice Video Specific Heat of Water Video Cohesion & Adhesion Quick Read Capillary Action Video Surface Tension Video Properties of Water Skill Check	Polarity Water- Liquid Awesome		=	How does each property support life? How do hydrogen bonding and polarity impact the special properties of water?	

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SC.912.L.14.1 Cell Theory	Text: Chapter 3, Section 3.1, pages 70-71 IR: page 37	Cell Theory Video	Cell Theory Discoveries Explained	Cell Theory quiz game Cell Theory quiz	Cell Theory	What are the components of Cell Theory? How did scientific investigations play a role in developing Cell Theory?	Sample Cell Theory Questions
SC.912.L.14.3 Prokaryotic & Eukaryotic Cells	Text: Chapter 3, Sections: 3.1, page 72 Section 3.2, pages 73-79 IR: pages 38-42	Prokaryotic Cell Quick Read Eukaryotic Cell Quick Read Pro & Eukaryotic Cell Video Nucleus & Ribosome Quick Read Endoplasmic Reticulum & Golgi Bodies Video Endomembrane System Video Mitochondria & Chloroplast Quick Read Mitochondria Video Plant & Animal Cell Video Cell Structure Skill Check	Prokaryotes and Eukaryotes Video Refresher Assignment Discovery: Introduction to Cells Assignment Discovery: Eukaryotic Cells	Cells Alive: Animal & Plant Cell Structures Bioman: Animal cell Bioman: Build a Cell	Cell Structures	How would you use cell structures to classify a cell as prokaryotic or eukaryotic? Plant or Animal? How is the structure of each cell part related to its function: cytoplasm, ribosomes, nucleus, nuclear envelope, nucleolus, endoplasmic reticulum, vacuoles, mitochondria, golgi apparatus, chloroplasts, lysosomes, cell wall, cell membrane, cilia, and flagella?	Sample Prokaryote, Eukaryote, Cell Membrane & Transport Questions

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 video or animation/tutorial.	Online Interactive Game or Lab: Complete the lab or play the game.	Vocabulary Quizlets: Review the vocabulary flashcards.	Exit Questions: Provide a detailed answer to each exit question.	Self-Assessment: Test yourself with these sample questions.
Also Assesses SC.912.L.14.2 Cell Membrane (active and passive transport)	Text: Chapter 3, Section 3.3 pages 81-84; Section 3.4, pages 84-88 Section 3.5, pages 89-91: IR: pages 43-50	Plasma Membrane Quick Read Cell Membrane Video Concentration Gradient Video Osmosis & Tonicity Quick Read Osmosis Video Tonicity Video Diffusion & Osmosis Video Membrane, Diffusion & Osmosis Skill Check Diffusion & Passive Transport Quick Read Passive Transport Video Facilitated Diffusion Video Active Transport Quick Read Endocytosis Video Exocytosis Video Cell Transport Skill Check	Osmosis Video Refresher Brainpop: Passive Transport Diffusion and Osmosis Brainpop: Active Transport	Movement across cell membrane animation Bioman: Cell membrane game	Cell Membranes	How does the structure of the cell membrane relate to its function? What is the role of the cell membrane during passive transport? What is the role of the cell membrane during active transport?	Sample Prokaryote, Eukaryote, Cell Membrane & Transport Questions

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 video or animation/tutorial.	Online Interactive Game or Lab: Complete the lab or play the game.	Vocabulary Quizlets: Review the vocabulary flashcards.	Exit Questions: Provide a detailed answer to each exit question.	Self-Assessment: Test yourself with these sample questions.
SC.912.L.18.9 Photosynthesis & Cellular Respiration Also assesses: SC.912.L.18.7 Photosynthesis SC.912.L.18.8 Cell Respiration SC.912.L.18.10 ATP	Text: Chapter 4, Sections 4.1, 4.2, 4.4; pages 100-103, 113-114, 121 IR: pages 53-58, 62-64	Photosynthesis Quick Read Photosynthesis Video Introduction to Cell Respiration Video Fermentation and Anaerobic Respiration Quick Read	Brainpop: Photosynthesis Photosynthesis Video Refresher Cellular Respiration Animation Brainpop: Cellular Respiration Cellular Respiration Video Refresher	Bioman: Photosynthesis /Respiration Game	Photosynthesis and Cellular Respiration	In what ways are photosynthesis and cellular respiration interconnected on Earth? What are the reactants, products & function of Photosynthesis? Of Cellular Respiration? How does the ATP molecule allow energy to be stored and released in a cell?	Sample Photosynthesis, Cellular Respiration & ATP Questions

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SC.912.L.16.1 Mendel's Laws Also assesses SC.912.L.16.2 Inheritance Patterns	Text: Chapter 6, Sections 6.3, 6.4, 6.5; pages 177-187; Chapter 7, Sections 7.1 & 7.2; pages 200-207 IR: pages 96-104 & 110-113	Mendel & His Peas Reading Introduction to Heredity Video Punnett Square Fun Video Law of Segregation Reading & Checks Law of Independent Assortment Reading & Checks Overview of Variations on Mendel's Laws Quick Read Variations on Mendel's Laws Reading Sex Linked Traits Video Classical Genetics Skill Check	Brainpop: Genetics Brainpop: Mendel Mendel animation Beginner's Guide to Punnett Squares Monohybrid Crosses Video Refresher Dihybrid Crosses Video Refresher Sex-linked Traits Video Refresher Multiple Alleles Video Refresher Incomplete & Codominance, Polygenic Traits Video Refresher	Mendels Laws Interactive	Genetics	How do Mendel's Laws of Segregation and Independent Assortment impact inheritance patterns? How do codominance, incomplete dominance, multiple alleles, sex-linkage, and polygenic inheritance impact inheritance patterns?	Sample Mendel's Laws & Inheritance Patterns Questions

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SC.912.L.16.3 DNA Also Assesses	Text: Chapter 8, Sections 8.3, 8.4, 8.5, 8.7; pages 235- 247; 252-255 IR: pages 127-138; 142-14	Nucleic Acid Reading DNA Video Molecular Structure of DNA Video Antiparallel Structure Video Mode of DNA Replication Reading	Brainpop: DNA DNA Structure & Function Video Refresher Khan Academy DNA Structure and replication DNA Replication Video Refresher	The Double Helix Game	DNA replication	What is the basic process of DNA replication? What are the roles of transcription and translation in the expression of genes?	Sample DNA, Transcription, Translation & Mutations Questions
SC.912.L.16.5 Transcription & Translation SC.912.L.16.4 Mutations		DNA Replication, Transcription & Translation Video Alleles & Genes Video The Genetic Code Reading Transcription Reading Translation Reading	Brainpop: RNA RNA vs DNA Video Refresher Protein Synthesis Video Refresher Brainpop: Genetic Mutations Genetic Mutation Video Refresher Mutations Explanation	Transcribe Interactive Genetic Mutations lab		How can a mutation in the DNA sequence of a chromosome cause a change in a person's physical appearance?	

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 video or animation/tutorial.	Online Interactive Game or Lab: Complete the lab or play the game.	Vocabulary Quizlets: Review the vocabulary flashcards.	Exit Questions: Provide a detailed answer to each exit question.	Self-Assessment: Test yourself with these sample questions.
SC.912.L.16.17 Mitosis vs Meiosis Also Assesses: SC.912.L.16.14 Cell Cycle & Mitosis SC.912.L.16.16 Meiosis SC.912.L.16.8 Cancer & Cell Cycle	Text: Chapter 5, Sections 5.1, 5.2, 5.4, pages 134-142, 146-150; Chapter 6, Sections 6.1, 6.2; pages 168-176 IR: pages 74-81, 90- 95, 105-106	DNA & Chromosomes Quick Read Chromosomes, Chromatids, Chromatin Video Phases of the Cell Cycle Quick Read Interphase Video Phases of Mitosis Quick Read Mitosis Video Mitosis Skill Check Meiosis Quick Read Comparing Meiosis & Mitosis Video Crossing Over in Meiosis Video Phases of Meiosis I Video Phases of Meiosis II Video Cell Division Skill Check Cancer & Cell Cycle Reading Cancer Video	Mitosis Video Refresher Mitosis Explained Assignment Discovery Cell Reproduction and Growth Mitosis Animation Meiosis Video Refresher Meiosis Explained Cell Cycle & Cancer Video Refresher	Cells Alive: Cell Cycle Cells Alive: Mitosis Cells Alive: Meiosis Bioman: Meiosis & Genetics	Cell Division	How are the processes of mitosis and meiosis both alike and different? Why can meiosis create genetic variation while mitosis cannot? What events occur in the cell cycle, including mitosis & cytokinesis? What events occur in meiosis, including independent assortment & crossing over? How does a mutation in the genes that control the cell cycle potentially result in cancer?	Sample Mitosis, Meiosis, Cell Cycle & Cancer Questions

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SC.912.L.16.10 Biotechnology	Text: Chapter 9, Section 9.4; pages 275-279 IR: pages 154-156		Biotechnology Classzone: Biotechnology all six key concepts Chapter 9, Interactive Review: Key Concepts	Gel electrophoresis lab Chapter 9: Labs – virtual lab	Biotechnology	What is an example of biotechnology, including its potential positive and negative impacts on society?	Sample Biotechnology Questions