Important Information:

- Syllabus
- **Planning:** 2nd (Fall)/1st (Spring)
- **Grading Periods:**
  - Q1: 8/6 - 10/14
  - Q2: 10/15 - 12/17
  - Q3: 1/4 - 3/8
  - Q4: 3/9 - 5/18

Holly Johnson: Biology 26-27 Lesson Plans

Monday	Tuesday	Wednesday	Thursday	Friday
(Standard) I can statement(s)				
General Biology Lesson Plans				
Honors Biology Lesson Plans				
School Notes				

Biology Lesson Plans for the Week of ***November 2-6***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection. I can construct and communicate explanations using evidence to show how populations change over time due to evolution.				
Lesson 5.1: Inheritance & Evolution - Review Activity 2 & Activity 1: Hardy-Weinberg Equilibrium	- Activity 2: Antibiotic Resistance	**Lesson 5.2: Mechanisms of Evolution** - Activity 3: Mechanisms of Evolution Tasks	- Activity 4: Rock Pocket Mice	- Activity 4: Rock Pocket Mice - Review Activity 3: Selection & Evolution Examples
Lesson 5.1: Inheritance & Evolution - Review Activity 2 & Activity 1: Hardy-Weinberg Equilibrium	- Activity 2: Antibiotic Resistance	**Lesson 5.2: Mechanisms of Evolution** - Activity 3: Mechanisms of Evolution Tasks	- Activity 4: Rat Island Project	- Activity 4: Rat Island Project
Notes:	Notes: **Teaching Studies**	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***November 9-13***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection.				

Construct and communicate explanations using evidence to show how populations change over time due to evolution.				
Lesson 5.3: Evidence of Evolution - Activity 5: Evidence for Evolution CER Review	- Activity 5: Evidence for Evolution CER Review	- Activity 6: Grant's Finches	**Lesson 5.4: Biodiversity & Systematics** - Activity 7: Classifying Life	- Make-up/Catch-up - TCT: Drought in the Galápagos
- Activity 4: Rat Island Presentations/Reflections	**Lesson 5.3: Evidence of Evolution** - Activity 5: Evidence for Evolution CER Review	- Activity 6: Grant's Finches	**Lesson 5.4: Biodiversity & Systematics** - Activity 7: Classifying Life	- Make-up/Catch-up - TCT: Drought in the Galápagos
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***November 16-20***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection. I can construct and communicate explanations using evidence to show how populations change over time due to evolution.				
- Lab 1: Dissection Day 1	- Lab 1: Dissection Day 2 (Review) - Unit 5 Review	- Unit 5 Review	- Unit 5 Exam (100 points)	- Unit 5 Exam Review **Unit 6: Ecosystems & Environmental Impacts** - Unit 6: Ecosystems & Environmental Impacts Phenomenon
- Lab 1: Dissection Day 1	- Lab 1: Dissection Day 2 (Review) - Unit 5 Review	- Unit 5 Review	- Unit 5 Exam (100 points)	- Unit 5 Exam Review **Unit 6: Ecosystems & Environmental Impacts** - Unit 6: Ecosystems & Environmental Impacts Phenomenon
Notes:	Notes:	Notes:	Notes:	Notes:

KSA Prep Week **Club Day**	**KSA Prep Week**	**KSA Prep Week**	**KSA Prep Week**	

Biology Lesson Plans for the Week of ***November 23-27***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 5: Ecology & Environmental Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can use mathematical and/or computational models to explain how energy flows and matter cycles within an ecosystem. I can explain how different factors affect biodiversity and population sizes in ecosystems. I can use models to show how interactions among organisms influence the structure and dynamics of ecosystems. I can evaluate claims and evidence about how changes in ecosystem conditions affect populations and biodiversity. I can design, evaluate, and refine solutions to reduce the impact of human activities on the environment and biodiversity. I can explain how organisms compete for limited resources and how this competition affects ecosystem stability.				
Unit 6: Ecosystems & Environmental Impacts - Lesson 5.1: Interactions in Ecosystems - Activity 1: Eco Spy Scavenger Hunt	- Review Activity 1: Wild Turkey Review	-	-	-
Unit 6: Ecosystems & Environmental Impacts - Lesson 5.1: Interactions in Ecosystems - Activity 1: Eco Spy Scavenger Hunt	- Review Activity 1: Wild Turkey Review	-	-	-
Notes:	Notes:	Notes: **Thanksgiving Break**	Notes: **Thanksgiving Break**	Notes: **Thanksgiving Break**

Biology Lesson Plans for the Week of ***November 30-Dec. 4***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 5: Ecology & Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can explain how limiting factors affect population growth and determine the carrying capacity of an ecosystem. I can analyze and model population data to describe trends and predict changes over time.				

I can show how energy flows and matter cycles through ecosystems using food webs, energy pyramids, and real-world examples. I can describe how ecosystems respond to disturbances and predict how a change in one part of a system affects the whole system. I can evaluate how human activities influence biodiversity and propose evidence-based strategies to reduce negative impacts.				
Lesson 6.1: Individual & Population Ecology - Activity 1: Serengeti Scenario	**Lesson 6.2: Community Ecology & Interactions in Ecosystems** - Activity 2: Out of the Ashes	**Lesson 6.3: Energy Flow through Ecosystems** - Activity 3: Snails & Salt Marshes	- Activity 4: Some Animals are More Equal Than Others	**Lesson 6.4: Matter Cycling in Ecosystems (3)** - Activity 5: The Yellowstone Story (Part 1)
Lesson 6.1: Individual & Population Ecology - Activity 1: Serengeti Scenario	**Lesson 6.2: Community Ecology & Interactions in Ecosystems** - Activity 2: Out of the Ashes	**Lesson 6.4: Energy Flow through Ecosystems** - Activity 4: Snails & Salt Marshes	- Activity 4: Some Animals are More Equal Than Others	**Lesson 6.3: Matter Cycling in Ecosystems (4)** - Activity 5: The Yellowstone Story (Part 1)
Notes:	Notes: **NTI Day 1**	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***December 7-11***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 5: Ecology & Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can explain how limiting factors affect population growth and determine the carrying capacity of an ecosystem. I can analyze and model population data to describe trends and predict changes over time. I can show how energy flows and matter cycles through ecosystems using food webs, energy pyramids, and real-world examples. I can describe how ecosystems respond to disturbances and predict how a change in one part of a system affects the whole system. I can evaluate how human activities influence biodiversity and propose evidence-based strategies to reduce negative impacts.				
Lesson 6.4: Matter Cycling in Ecosystems (3) - Activity 5: The Yellowstone Story (Part 1)	**Lesson 6.4: Matter Cycling in Ecosystems (3)** - Activity 5: The Yellowstone Story (Part 1)	**Lesson 6.4: Matter Cycling in Ecosystems (3)** - Activity 5: The Yellowstone Story (Part 1)	**Lesson 6.4: Matter Cycling in Ecosystems (3)** - Activity 5: The Yellowstone Story (Part 1)	
Lesson 6.3: Matter Cycling in Ecosystems (4)	**Lesson 6.3: Matter Cycling in Ecosystems (4)**	**Lesson 6.3: Matter Cycling in Ecosystems (4)**	**Lesson 6.3: Matter Cycling in Ecosystems (4)**	

- Activity 5: The Yellowstone Story (Part 1)	- Activity 5: The Yellowstone Story (Part 1)	- Activity 5: The Yellowstone Story (Part 1)	- Activity 5: The Yellowstone Story (Part 1)	
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***December 14-18***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 5: Ecology & Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can explain how limiting factors affect population growth and determine the carrying capacity of an ecosystem. I can analyze and model population data to describe trends and predict changes over time. I can show how energy flows and matter cycles through ecosystems using food webs, energy pyramids, and real-world examples. I can describe how ecosystems respond to disturbances and predict how a change in one part of a system affects the whole system. I can evaluate how human activities influence biodiversity and propose evidence-based strategies to reduce negative impacts.				
- Unit 6 Review	- Unit 6 Review	- Unit 6 Exam	- Unit 6 Exam Review	-
- Unit 6 Review	- Unit 6 Review	- Unit 6 Exam	- Unit 6 Exam Review	-
Notes:	Notes:	Notes:	Notes: **Q2 Ends**	Notes: **Winter Break**

December 21-Jan. 1: **Winter Break!**

Biology Lesson Plans for the Week of ***January 4-8***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Introduction to Biology (HS-LS1-2) I can identify if matter is living or non-living based on defined characteristics.				
- About Mrs. Johnson & Class Expectations - Syllabus & Safety Contract - Review Activity 1: Why Study Biology?	**Start Introduction to Biology** **Lesson 1: What is Biology?** - Activity 1: Metric Measurements	- Lab 1: Biological Tools Lab	- Lab 1: Biological Tools Lab **Lesson 2: The Scientific Method** - Review Activity 2: Variable Card Sort	- Activity 2: Fortune Teller Fish (Part 1: What Makes the Fish Move?)

- About Mrs. Johnson & Class Expectations - Syllabus & Safety Contract - Review Activity 1: Why Study Biology?	**Start Introduction to Biology** **Lesson 1: What is Biology?** - Activity 1: Metric Measurements	- Lab 1: Biological Tools Lab	**Lesson 2: The Scientific Method** - Review Activity 2: Scientific Method Scenarios	- Activity 2: Fortune Teller Fish (Part 1: What Makes the Fish Move?)
Notes:	Notes: - Activity 1: Metric Measurements Due (30 points)	Notes: - Lab 1: Biological Tools Lab Due (50 points)	Notes: - Lab 1: Biological Tools Lab Due (50 points)	Notes:

Biology Lesson Plans for the Week of ***January 11-15***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: The Chemistry of Life & Macromolecules (HS-LS2-5; HS-LS1-6) I can identify if matter is living or non-living based on defined characteristics. I can explain how the properties of water impact biological processes. I can describe how elements from food (like carbon, hydrogen, and oxygen) are used to build important molecules in the body.				
Lesson 3: Characteristics of Life - Activity 2: Fortune Teller Fish (Part 2: Is the Fish Alive?) - Review Activity 3: Characteristics of Life Card Sort	- TCT: Going Viral **Lesson 4: Biological Levels of Organization** - Review Activity 4: Biological Levels of Organization	- Unit 1: The Chemistry of Life Phenomenon **Start Unit 1: The Chemistry of Life & Macromolecules** **Lesson 1.1: The Chemistry of Life** - Review Activity 1: CoL	**Lesson 1.2: The Importance of Water** - Lab 1: Capillary Action Lab - Review Activity 2: Properties of Water SPLAT	- Lab 1: Capillary Action Lab & Review -Make-up/Catch-up
Lesson 3: Characteristics of Life - Activity 2: Fortune Teller Fish (Part 2: Is the Fish Alive?) - Review Activity 3: Characteristics of Life Card Sort	- TCT: Going Viral **Lesson 4: Biological Levels of Organization** - Review Activity 4: Biological Levels of Organization	- Unit 1: The Chemistry of Life Phenomenon **Start Unit 1: The Chemistry of Life & Macromolecules** **Lesson 1.1: The Chemistry of Life**	**Lesson 1.2: The Importance of Water** - Lab 1: Capillary Action Lab - Review Activity 1: Properties of Water SPLAT	- Lab 1: Capillary Action Lab & Review -Make-up/Catch-up
Notes:	Notes	Notes:	Notes:	Notes:

- Activity 2: Fortune Teller Fish Due (30 points)	- TCT: Going Viral Due (15 points)			- Lab 1: Capillary Action Lab Review Due (50 points)

Biology Lesson Plans for the Week of ***January 18-22***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: The Chemistry of Life & Macromolecules (HS-LS2-5; HS-LS1-6) I can explain how smaller molecules combine to make proteins and other large molecules. I can use evidence to support how our bodies build complex molecules from simple ones like sugars.				
-	**Lesson 1.3: Organic Compounds (Carbohydrates & Lipids)** - Lab 2: The Grape Float Lab	-	**Lesson 1.3: Organic Compounds (Proteins & Nucleic Acids)** - Activity 1: Protein Problem Scenario - Review Activity 2: Macromolecule Card Sort	**Lesson 1.4: Chemical Reactions & Enzymes** - Activity 2: Enzyme Inquiry
-	**Lesson 1.3: Organic Compounds (Carbohydrates & Lipids)** - Lab 2: The Grape Float Lab	-	**Lesson 1.3: Organic Compounds (Proteins & Nucleic Acids)** - Activity 1: Protein Problem Scenario - Review Activity 2: Macromolecule Card Sort	**Lesson 1.4: Chemical Reactions & Enzymes** - Activity 2: Enzyme Inquiry
Notes: **MLK Day**	Notes: - Lab 2: The Grape Float Lab Due (25 points) **Club Day**	Notes: **No School: Girls Basketball**	Notes: - Activity 1: Protein Problem Scenario Due (15 points)	Notes: - Activity 2: Enzyme Inquiry (25 points)

Biology Lesson Plans for the Week of ***January 25-29***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: The Chemistry of Life & Macromolecules (HS-LS2-5; HS-LS1-6) I can explain how smaller molecules combine to make proteins and other large molecules. I can use evidence to support how our bodies build complex molecules from simple ones like sugars.				

Snow Day	- Review Activity 4: Enzymes Review	- Test Review 1: Biochemistry and Macromolecules	- Unit 1: Chemistry of Life Phenomenon Explanation	**Snow Day**
Snow Day	- Review Activity 4: Enzyme Escape Room	- Test Review 1: Biochemistry and Macromolecules	- Unit 1: Chemistry of Life Phenomenon Explanation	**Snow Day**
Notes: **Snow Day**	Notes: **NTI Day 2**	Notes: **NTI Day 3**	Notes: **NTI Day 4**	Notes: **Snow Day**

Biology Lesson Plans for the Week of ***February 1-5***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 2: Cell Biology & Energetics (HS-LS1-3) I can identify key features of cells. I can identify the structure and function of key organelles in a cell.				
Snow Day	- Test Review 2: Content Analysis	- Unit 1 Review - Make-up/Catch-up	- Unit 1 Exam (100 points)	- Unit 1 Exam Review
Snow Day	- Test Review 2: Content Analysis	- Unit 1 Review - Make-up/Catch-up	- Unit 1 Exam (100 points)	- Unit 1 Exam Review
Notes: **Snow Day**	Notes: **NTI Day 5**	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***February 8-12***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 2: Cell Biology & Energetics (HS-LS1-3) I can model how cells maintain homeostasis with cellular transport through the cell membrane.				
- Unit 2: Cells & Organelles Phenomenon **Start Unit 2: Cell Biology & Organelles** **Lesson 2.1: Cell Theory & Organelles**	- Activity 1: Cells & Organelles CER Stations - Catch-Up	- Lab 1: Carrot Osmosis Lab **Lesson 2.2: Cellular Transport (Passive)** - Review Activity 1: Passive Transport Reflection	- Lab 1: Carrot Osmosis Lab - TCT: Osmoregulation - Activity 2: Cellular Transport Simulation (P1)	**Lesson 2.2: Cellular Transport (Active)** - Activity 2: Cellular Transport Simulation (P2)

- Activity 1: Cells & Organelles CER Stations				
- Unit 2: Cells & Organelles Phenomenon **Start Unit 2: Cell Biology & Energetics** **Lesson 2.1: Cell Theory & Organelles** - Activity 1: Cells & Organelles CER Stations	- Activity 1: Cells & Organelles CER Stations - Catch-Up	- Lab 1: Carrot Osmosis Lab **Lesson 2.2: Cellular Transport (Passive)** - Review Activity 1: Passive Transport Reflection	- Lab 1: Carrot Osmosis Lab - TCT: Osmoregulation - Activity 2: Cellular Transport Simulation (P1)	**Lesson 2.2: Cellular Transport (Active)** - Activity 2: Cellular Transport Simulation (P2)
Notes:	Notes: - Activity 1: Cells & Organelles CER Stations Due (30 points)	Notes: **Observation (4th block)**	Notes: - Lab 1: Carrot Osmosis Lab Due (50 points) - TCT: Osmoregulation Due (15 points)	Notes: - Activity 3: Cellular Transport Simulation Due (30 points)

Biology Lesson Plans for the Week of ***February 15-19***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 2: Cell Biology & Energetics (HS-LS1-3) I can model how cells maintain homeostasis through feedback mechanisms.				
Presidents' Day	**Lesson 2.3: Cellular Signaling** - Review Activity 2: Cellular Signaling Simulation (3rd & 4th Block) - Activity 3: Cellular Signaling Scenarios (1st Block)	- Activity 3: Cellular Signaling Scenarios (3rd & 4th Block) **Lesson 2.4: Feedback Loops & Homeostasis (1st Block)** - Activity 4: Feedback Loops Stations (1st Block)	**Lesson 2.4: Feedback Loops & Homeostasis (3 & 4th Block)** - Activity 4: Feedback Loops Stations (3rd & 4th Block)	- Review Activity 3: Feedback Loops
Presidents' Day	**Lesson 2.3: Cellular Signaling** - Review Activity 2: Cellular Signaling Simulation (3rd & 4th Block)	- Activity 3: Cellular Signaling Scenarios (3rd & 4th Block) **Lesson 2.4: Feedback Loops & Homeostasis (1st Block)**	**Lesson 2.4: Feedback Loops & Homeostasis** - Activity 4: Feedback Loops Stations	- Review Activity 3: Feedback Loops

	- Activity 3: Cellular Signaling Scenarios (1st Block)	- Activity 4: Feedback Loops Stations (1st Block)		
Notes: **Presidents' Day**	Notes: - Activity 5: Cellular Signaling Scenarios Due (25 points) **Club Day**	Notes: **Scheduling**	Notes: **Black History Month Assembly @ 8:00am** - Activity 5: Feedback Loops Station Due (30 points)	Notes:

Biology Lesson Plans for the Week of ***February 22-26***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 3: Energy & Metabolism (HS-LS1-5; HS-LS1-7; HS-LS2-3) I can explain how cells maintain homeostasis through feedback mechanisms. I can describe the structure of ATP and how it functions as the cell's energy molecule.				
- Unit 2 Review - Make-Up/Catch-Up	- Unit 2 Review (Jeopardy) - Make-Up/Catch-Up	- Unit 2 Exam (100 points)	- Unit 2 Exam Review - Unit 3: Energy & Metabolism Phenomenon	**Start Unit 3: Metabolism & Energy** **Lesson 3.1: Cellular Energy**
- Unit 2 Review - Make-Up/Catch-Up	- Unit 2 Review (Jeopardy) - Make-Up/Catch-Up	- Unit 2 Exam (100 points)	- Unit 2 Exam Review - Unit 3: Energy & Metabolism Phenomenon	**Start Unit 3: Metabolism & Energy** **Lesson 3.1: Cellular Energy**
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***March 1-5***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 3: Energy & Metabolism (HS-LS1-5; HS-LS1-7; HS-LS2-3) I can describe how photosynthesis transforms light energy into stored chemical energy. I can describe how cellular respiration uses organic molecules to release chemical energy. I can use a model to show the transfer of energy in photosynthesis and cellular respiration.				
Lesson 3.2: Photosynthesis - Review Activity 1: Photosynthesis Steps	- Lab 1: Spinach Leaves & Photosynthesis	**Lesson 3.3: Cellular Respiration**	- Lab 2: The Barf Bag	- Unit 3: Metabolism & Energy Phenomenon Explanation

		- Review Activity 2: Cellular Respiration		
Lesson 3.2: Cellular Energy (Photosynthesis) - Review Activity 1: Photosynthesis Doodles	- Lab 1: Spinach Leaves & Photosynthesis	**Lesson 3.3: Cellular Energy (Respiration)** - Review Activity 2: Cellular Respiration Doodles	- Lab 2: The Barf Bag	- Unit 3: Metabolism & Energy Phenomenon Explanation
Notes:	Notes: - Lab 2: Spinach Leaf Lab Due (50 points)	Notes:	Notes: - Lab 2: The Barf Bag Due (50 points)	Notes:

Biology Lesson Plans for the Week of ***March 8-12***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how the cell cycle and how mitosis produces identical copies of cells.				
- Unit 3 Review: Photosynthesis & Cellular Respiration Simulation	- Unit 3 Review (Who Wants to be a Milllianaire)	- Unit 3 Exam (100 points)	- Unit 3 Exam Review - Unit 4: Genetics & Heredity Phenomenon	**No School**
- Unit 3 Review: Photosynthesis & Cellular Respiration Simulation	- Unit 3 Review (Who Wants to be a Milllianaire)	- Unit 3 Exam (100 points)	- Unit 3 Exam Review - Unit 4: Genetics & Heredity Phenomenon	**No School**
Notes:	Notes:	Notes:	Notes:	Notes: **No School**

Biology Lesson Plans for the Week of ***March 15-19***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how genetic variation in a population comes from sexual reproduction. I can explain how meiosis produces gametes with half the number of chromosomes. I can describe how crossing-over and independent assortment create genetic variation.				

I can explain how fertilization restores chromosome number and combines genetic information from two parents.				
Start Unit 4: Genetics & Heredity **Lesson 4.1: Inheritance & Reproduction** - Activity 1: Asexual vs. Sexual Reproduction Review	**Lesson 4.2: The Cell Cycle (Interphase)** - Review Activity 1: DNA Replication Model	**Lesson 4.2: The Cell Cycle (M & C)** - Review Activity 2: Mitosis Spinner - Activity 2: Mitosis Microscope Review	**Lesson 4.3: Meiosis** - Activity 3: Meiosis Review	- Review Activity 3: Mitosis vs. Meiosis Whodunnit?
-**Start Unit 4: Genetics & Heredity** **Lesson 4.1: Inheritance & Reproduction** - Activity 1: Asexual vs. Sexual Reproduction Review	**Lesson 4.2: The Cell Cycle (Interphase)** - Review Activity 1: DNA Replication Model	**Lesson 4.2: The Cell Cycle (M & C)** - Review Activity 2: Mitosis Spinner - Activity 2: Mitosis Microscope Review	**Lesson 4.3: Meiosis** - Activity 3: Meiosis Review	- Review Activity 3: Mitosis vs. Meiosis Whodunnit?
Notes: **Club Day**	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***March 22-26***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how genetic variation in a population comes from mutations and sexual reproduction. I can use data and probability to show how traits vary and are distributed within a population.				
Lesson 4.4: Heredity (Mendelian Traits) - Activity 4: Punnett Square Review (Monohybrid)	**Lesson 4.4: Heredity (Mendelian Traits)** - Activity 4: Punnett Square Review (Dihybrid)	**Lesson 4.4: Heredity (Non-Mendelian Traits)** - Activity 4: Punnett Square Review (Non-Mendelian)	**Lesson 4.5: The Central Dogma** - Activity 5: Protein Synthesis	**Lesson 4.6: Mutations** - Activity 6: Mutations Review
Lesson 4.4: Heredity - Review Activity 4: Punnett Square Races	- Activity 4: Dragon Genetics	- Activity 4: Dragon Genetics	**Lesson 3.4: The Central Dogma** - Activity 5: Protein Synthesis	**Lesson 4.6: Mutations** - Activity 6: Mutations Review
Notes:	Notes:	Notes: - Activity 3: Punnett Square Review Due (50 Points)	Notes: - Activity 5: Protein Synthesis Due (25 points)	Notes: - Activity 6: Mutations Review Due (25 points)

		- Activity 3: Dragon Genetics Due (50 points)		

Biology Lesson Plans for the Week of ***March 29- Apr. 2***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can use data and probability to show how traits vary and are distributed within a population.				
- Unit 4 Review: Mitosis & Meiosis Sink or Swim - Genetics Crossword	- Unit 4: Phenomenon Explanation - Unit 4 Review: Genetics Train, PS RallyCoach, PS Escape Room, Mutations Brain Dump	- Unit 4 Exam (100 points)	- Unit 4 Exam Review - Review Activity 1: One Fish, Two Fish, Red Fish Blue Fish **Unit 5: Natural Selection & Biodiversity**	**Spring Break**
- Unit 4 Review: Mitosis & Meiosis Sink or Swim - Genetics Crossword	- Unit 4: Phenomenon Explanation - Unit 4 Review: Genetics Train, PS RallyCoach, PS Escape Room, Mutations Brain Dump	- Unit 4 Exam (100 points)	- Unit 4 Exam Review - Review Activity 1: One Fish, Two Fish, Red Fish Blue Fish **Unit 5: Natural Selection & Biodiversity**	**Spring Break**
Notes:	Notes:	Notes:	Notes:	Notes: **Spring Break**

April 5-9: **Spring Break!**

Biology Lesson Plans for the Week of ***April 12-16***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection. I can construct and communicate explanations using evidence to show how populations change over time due to evolution.				
- Unit 5: Natural Selection & Biodiversity Phenomenon	- Activity 2: Antibiotic Resistance	**Lesson 5.2: Mechanisms of Evolution**	- Activity 4: Rock Pocket Mice	- Activity 4: Rock Pocket Mice

Lesson 5.1: Inheritance & Evolution - Review Activity 2 & Activity 1: Hardy-Weinberg Equilibrium		- Activity 3: Mechanisms of Evolution Tasks		- Review Activity 3: Selection & Evolution Examples
- Unit 5: Natural Selection & Biodiversity Phenomenon **Lesson 5.1: Inheritance & Evolution** - Review Activity 2 & Activity 1: Hardy-Weinberg Equilibrium	- Activity 2: Antibiotic Resistance	**Lesson 5.2: Mechanisms of Evolution** - Activity 3: Mechanisms of Evolution Tasks	- Activity 4: Rat Island Project	- Activity 4: Rat Island Project
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***April 19-23***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection. Construct and communicate explanations using evidence to show how populations change over time due to evolution.				
Lesson 5.3: Evidence of Evolution - Activity 5: Evidence for Evolution CER Review	- Activity 5: Evidence for Evolution CER Review	- Activity 6: Grant's Finches	**Lesson 5.4: Biodiversity & Systematics** - Activity 7: Classifying Life	- Make-up/Catch-up - TCT: Drought in the Galápagos
- Activity 4: Rat Island Presentations/Reflections	**Lesson 5.3: Evidence of Evolution** - Activity 5: Evidence for Evolution CER Review	- Activity 6: Grant's Finches	**Lesson 5.4: Biodiversity & Systematics** - Activity 7: Classifying Life	- Make-up/Catch-up - TCT: Drought in the Galápagos
Notes: **KSA Prep Week** **Club Day**	Notes: **KSA Prep Week**	Notes: **KSA Prep Week**	Notes: **KSA Prep Week**	Notes:

Biology Lesson Plans for the Week of ***April 26-30***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Natural Selection & Biodiversity (HS-LS4-1, HS-LS4-2, HS-LS3-3) I can identify and explain the main factors that drive evolution by natural selection. I can construct and communicate explanations using evidence to show how populations change over time due to evolution.				
- Lab 1: Dissection Day 1	- Lab 1: Dissection Day 2 (Review) - Unit 5 Review	- Unit 5 Review	- Unit 5 Exam (100 points)	- Unit 5 Exam Review **Unit 6: Ecosystems & Environmental Impacts** - Unit 6: Ecosystems & Environmental Impacts Phenomenon
- Lab 1: Dissection Day 1	- Lab 1: Dissection Day 2 (Review) - Unit 5 Review	- Unit 5 Review	- Unit 5 Exam (100 points)	- Unit 5 Exam Review **Unit 6: Ecosystems & Environmental Impacts** - Unit 6: Ecosystems & Environmental Impacts Phenomenon
Notes: **KSA Prep Week**	Notes: **KSA Prep Week**	Notes: **KSA Prep Week**	Notes: **KSA Prep Week**	Notes:

Biology Lesson Plans for the Week of ***May 3-7***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 5: Ecology & Environmental Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can use mathematical and/or computational models to explain how energy flows and matter cycles within an ecosystem. I can explain how different factors affect biodiversity and population sizes in ecosystems. I can use models to show how interactions among organisms influence the structure and dynamics of ecosystems. I can evaluate claims and evidence about how changes in ecosystem conditions affect populations and biodiversity. I can explain how organisms compete for limited resources and how this competition affects ecosystem stability.				
- Review Activity 1: Eco Spy Scavenger Hunt	**Lesson 6.1: Individual & Population Ecology** - Activity 1: Serengeti Scenario	**Lesson 6.2: Community Ecology & Interactions in Ecosystems** - Activity 2: Out of the Ashes	**Lesson 6.3: Energy Flow through Ecosystems** - Activity 3: Snails & Salt Marshes	- Activity 4: Some Animals are More Equal Than Others

- Review Activity 1: Eco Spy Scavenger Hunt	**Lesson 6.1: Individual & Population Ecology** - Activity 1: Serengeti Scenario	**Lesson 6.2: Community Ecology & Interactions in Ecosystems** - Activity 2: Out of the Ashes	**Lesson 6.4: Energy Flow through Ecosystems** - Activity 4: Snails & Salt Marshes	- Activity 4: Some Animals are More Equal Than Others
Notes: **KSA Juniors (1st Block Proctoring)**	Notes: **KSA Juniors**	Notes: **KSA Juniors**	Notes:	Notes:

Biology Lesson Plans for the Week of ***May 10-14***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 5: Ecology & Environmental Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can design, evaluate, and refine solutions to reduce the impact of human activities on the environment and biodiversity.				
Lesson 6.4: Matter Cycling in Ecosystems (3) - Activity 5: The Yellowstone Story (Part 1)	**Lesson 6.5: Human Impact on Ecosystems (3)** - Activity 5: The Yellowstone Story (Part 2) **Lesson 6.4: Matter Cycling in Ecosystems (1)** - Activity 5: The Yellowstone Story (Part 1)	- Activity 5: The Wolves of Yellowstone (Part 3)	- Unit 6 Test Review (3) - Activity 5: The Wolves of Yellowstone (Part 3)	- Unit 6 Test Review
Lesson 6.3: Matter Cycling in Ecosystems (4) - Activity 5: The Yellowstone Story (Part 1)	**Lesson 6.5: Human Impact on Ecosystems (4)** - Activity 5: The Yellowstone Story (Part 2) **Lesson 6.4: Matter Cycling in Ecosystems (1)** - Activity 5: The Yellowstone Story (Part 1)	- Activity 5: The Wolves of Yellowstone (Part 3) **Lesson 6.5: Human Impact on Ecosystems (1)** - Activity 5: The Wolves of Yellowstone (Part 2)	- Unit 6 Test Review (4) - Activity 5: The Wolves of Yellowstone (Part 3)	- Unit 6 Test Review

Notes: **KSA Sophomores (No 1st Block)**	Notes: **KSA Sophomores (1st Block- 1 hr)**	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***May 17-21***				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 5: Ecology & Environmental Impacts (HS-LS2-2; HS-LS2-4; HS-LS2-1; HS-LS2-8; HS-LS2-6; HS-LS2-7) I can design, evaluate, and refine solutions to reduce the impact of human activities on the environment and biodiversity.				
- Finals: 2, 4	- Finals: 1, 3	- Closing Day	-	-
- Finals: 2, 4	- Finals: 1, 3	- Closing Day	-	-
Notes:	Notes: **Q4 Ends** **Last Day of School**	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***May 24-28***				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
(Standard) I can…				
-	-	-	-	-
-	-	-	-	-
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***Month XX-XX***				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
(Standard) I can…				
-	-	-	-	-
-	-	-	-	-

Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***August 3-7***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Introduction to Biology (No Standard) I can follow class expectations/procedures. I can use the scientific method and measure accurately.				
- Curriculum Day @ GCHS	- Opening Day @ GCHS	- Print syllabi & unit assignments - Finalize classroom set-up	- About Mrs. Johnson, Class Expectations & Syllabus **Start Introduction to Biology** **Lesson 0.1: What is Biology?** - Review Activity 1: Metric Measurements	**Lesson 0.2: The Scientific Method** - Review Activity 2: Variable Sort - Activity 1: Fortune Teller Fish (Part 1: What Makes the Fish Move?)
-	-	-	- About Mrs. Johnson, Class Expectations & Syllabus **Start Introduction to Biology** **Lesson 0.1: What is Biology?** - Review Activity 1: Metric Measurements	**Lesson 0.2: The Scientific Method** - Review Activity 2: Scientific Method Scenarios - Activity 1: Fortune Teller Fish (Part 1: What Makes the Fish Move?)
Notes:	Notes:	Notes:	Notes:	Notes: - Safety Contract Due

Biology Lesson Plans for the Week of ***August 10-14***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Introduction to Biology (HS-LS1-2) I can identify if matter is living or non-living based on defined characteristics. I can describe how elements from food (like carbon, hydrogen, and oxygen) are used to build important molecules in the body.				

Lesson 0.3: Characteristics of Life - Review Activity 3: Characteristics of Life Card Sort Review - Activity 1: Fortune Teller Fish (Part 2: Is the Fish Alive?)	- Activity 2: Case File: Is It Alive?	**Lesson 0.4: Biological Levels of Organization** - Review Activity 4: Levels of Organization Dominoes - Activity 3: Biological Levels of Organization	- Unit 1: Chemistry of Life Phenomenon **Start Unit 1: The Chemistry of Life & Macromolecules** **Lesson 1.1: The Chemistry of Life** - Review Activity 1: Chemistry of Life	- Activity 1: Molecular Polarity Simulation
Lesson 0.3: Characteristics of Life - Review Activity 3: Characteristics of Life Card Sort Review - Activity 1: Fortune Teller Fish (Part 2: Is the Fish Alive?)	- Activity 2: Case File: Is It Alive?	**Lesson 0.4: Biological Levels of Organization** - Review Activity 4: Levels of Organization Dominoes - Activity 3: Biological Levels of Organization	- Unit 1: Chemistry of Life Phenomenon **Start Unit 1: The Chemistry of Life & Macromolecules** **Lesson 1.1: The Chemistry of Life** - Review Activity 1: Chemistry of Life	- Activity 1: Molecular Polarity Simulation
Notes: - Activity 1: Fortune Teller Fish Due (30 points)	Notes: - Activity 2:Case File: Is It Alive? Due (30 points)	Notes: - Activity 3: Biological Levels of Organization Due (25 points)	Notes:	Notes: **Club Day** - Activity 1: Molecular Polarity Simulation Due (20 points)

Biology Lesson Plans for the Week of ***August 17-21***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: The Chemistry of Life & Macromolecules (HS-LS1-6) I can explain how the properties of water impact biological processes. I can describe how elements from food (like carbon, hydrogen, and oxygen) are used to build important molecules in the body. I can explain and use evidence to support how our bodies build complex molecules from simple ones like sugars.				
- Lab 1: Capillary Action Lab **Lesson 1.2: The Importance of Water** - Review Activity 2: PoW SPLAT	- Lab 1: Capillary Action Lab & Review **Lesson 1.3: Organic Compounds (Carbohydrates & Lipids)**	- Lab 2: The Grape Float Lab **Lesson 1.3: Organic Compounds (Proteins & Nucleic Acids)**	**Lesson 1.4: Chemical Reactions & Enzymes** - Activity 3: Enzyme Inquiry	- Review Activity 3: Macromolecule Card Sort - Make-Up/Catch-Up

		- Activity 2: Protein Problem Scenario		
- **Lesson 1.2: The Importance of Water** - Lab 1: Capillary Action Lab - Review Activity 2: PoW SPLAT	- Lab 1: Climbing Colors Lab & Review **Lesson 1.3: Organic Compounds (Carbohydrates & Lipids)**	- Lab 2: The Grape Float Lab **Lesson 1.3: Organic Compounds (Proteins & Nucleic Acids)** - Activity 2: Protein Problem Scenario	**Lesson 1.4: Chemical Reactions & Enzymes** - Activity 3: Enzyme Inquiry	- Review Activity 3: Macromolecule Card Sort - Make-Up/Catch-Up
Notes:	Notes: - Lab 1: Climbing Colors Lab Review Due (50 points)	Notes: - Lab 2: The Grape Float Lab (25 points) - Activity 1: Protein Problem Scenario Due (25 points)	Notes: **Picture Day** - Activity 2: Enzyme Inquiry (30 points)	Notes:

Biology Lesson Plans for the Week of ***August 24-28***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 1: The Chemistry of Life & Macromolecules (HS-LS2-5; HS-LS1-6) I can explain how smaller molecules combine to make proteins and other large molecules. I can use evidence to support how our bodies build complex molecules from simple ones like sugars. I can explain the importance of the carbon cycle for supporting life on Earth.				
- Unit 1 Review: Content Analysis	- Unit 1 Review	- Unit 1 Exam (100 points)	- Unit 1 Exam Review	- Unit 2: Cells & Organelles Phenomenon **Start Unit 2: Cell Biology & Organelles** **Lesson 2.1: Cell Theory & Organelles**
- Unit 1 Review: Content Analysis	- Unit 1 Review	- Unit 1 Exam (100 points)	- Unit 1 Exam Review	- Unit 2: Cells & Organelles Phenomenon **Start Unit 2: Cell Biology & Organelles**

				Lesson 2.1: Cell Theory & Organelles
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***August 31-Sept. 4***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 2: Cell Biology & Energetics (HS-LS1-2; HS-LS1-4; HS-LS2-3; HS-LS1-7; HS-LS1-5; HS-LS1-3) I can identify key features of cells. I can identify the structure and function of key organelles in a cell				
- Activity 1: Cells & Organelles Stations	- Review Activity 1: Cells & Organelles Analogy	- Lab 1: Carrot Osmosis Lab **Lesson 2.2: Cellular Transport (Passive)** - Review Activity 2: Passive Transport Reflection	- Lab 1: Carrot Osmosis Lab - TCT: Osmoregulation **Lesson 2.2: Cellular Transport (Active)**	- Activity 2: Cellular Transport Simulation
- Activity 1: Cells & Organelles Stations	- Review Activity 1: Cells & Organelles Analogy	- Lab 1: Carrot Osmosis Lab **Lesson 2.2: Cellular Transport (Passive)** - Review Activity 2: Passive Transport Reflection	- Lab 1: Carrot Osmosis Lab - TCT: Osmoregulation **Lesson 2.2: Cellular Transport (Active)**	- Activity 2: Cellular Transport Simulation
Notes: - Activity 12: Cells & Organelles Stations Due (30 points)	Notes:	Notes:	Notes: - Lab 1: Carrot Osmosis Lab Due (50 points) - TCT: Osmoregulation Due (15 points)	Notes: - Activity 3: Cellular Transport Simulation Due (30 points)

Biology Lesson Plans for the Week of ***September 7-11***

Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 2: Cell Biology & Energetics (HS-LS1-2; HS-LS1-4; HS-LS2-3; HS-LS1-7; HS-LS1-5; HS-LS1-3) I can model how cells maintain homeostasis with cellular transport through the cell membrane.				
Labor Day	**Lesson 2.3: Cellular Signaling**	- Review Activity 4: Cell Signaling Marker Game	-**Lesson 2.4: Feedback Loops & Homeostasis**	- Review Activity 5: Feedback Loops

	- Review Activity 3: Cellular Signaling Interactive	- Activity 3: Cellular Signaling Scenarios	- Activity 4: Feedback Loops Stations	
Labor Day	**Lesson 2.3: Cellular Signaling** - Review Activity 3: Cellular Signaling Interactive	- Review Activity 4: Cell Signaling Marker Game - Activity 3: Cellular Signaling Scenarios	**Lesson 2.4: Feedback Loops & Homeostasis** - Activity 4: Feedback Loops Stations	- Review Activity 5: Feedback Loops
Notes: **Labor Day**	Notes:	Notes: - Activity 3: Cellular Signaling Scenarios Due (30 points)	Notes: - Activity 4: Feedback Loops Station Due (30 points)	Notes:

Biology Lesson Plans for the Week of ***September 14-18***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 3: Energy & Metabolism (HS-LS1-5; HS-LS1-7; HS-LS2-3) I can explain how cells maintain homeostasis through feedback mechanisms. I can describe the structure of ATP and how it functions as the cell's energy molecule.				
- Unit 2: Cell Biology Phenomenon Explanation - Unit 2 Review (SPLAT & Task Cards) - Make-Up/Catch-Up	- Unit 2 Review (Blooket Review) - Make-Up/Catch-Up	- Unit 2 Review (Jeopardy) - Make-Up/Catch-Up	- Unit 2 Exam (100 points)	- Unit 2 Exam Review
- Unit 2: Cell Biology Phenomenon Explanation - Unit 2 Review (SPLAT & Task Cards) - Make-Up/Catch-Up	- Unit 2 Review (Blooket Review) - Make-Up/Catch-Up	- Unit 2 Review (Jeopardy) - Make-Up/Catch-Up	- Unit 2 Exam (100 points)	- Unit 2 Exam Review
Notes: **Club Day**	Notes: **Heartland Conference (Sub)**	Notes:	Notes: **KSA Scrimmage (1-2) Double Check which test goes first!**	Notes:

Biology Lesson Plans for the Week of ***September 21-25***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 3: Energy & Metabolism (HS-LS1-5; HS-LS1-7; HS-LS2-3) I can describe how photosynthesis transforms light energy into stored chemical energy. I can describe how cellular respiration uses organic molecules to release chemical energy. I can use a model to show the transfer of energy in photosynthesis and cellular respiration.				
- Unit 3: Energy & Metabolism Phenomenon **Start Unit 3: Metabolism & Energy** **Lesson 3.1: Cellular Energy** - Activity 1: The ATP Cycle	**Lesson 3.2: Photosynthesis** - Review Activity 1: Photosynthesis Doodles	- Lab 1: Spinach Leaves & Photosynthesis	**Lesson 3.3: Cellular Respiration** - Review Activity 2: Cellular Respiration Doodles	- Lab 2: The Barf Bag* OR Cellular Respiration Review
- Unit 3: Energy & Metabolism Phenomenon **Start Unit 3: Metabolism & Energy** **Lesson 3.1: Cellular Energy** - Activity 1: The ATP Cycle	**Lesson 3.2: Photosynthesis** - Review Activity 1: Photosynthesis Doodles	- Lab 1: Spinach Leaves & Photosynthesis	**Lesson 3.3: Cellular Energy Respiration** - Review Activity 2: Cellular Respiration Doodles	- Lab 2: The Barf Bag* OR Cellular Respiration Review
Notes: - Activity 1: The ATP Cycle Due (15 points)	Notes: **Regional Tournament (Sub)**	Notes: - Lab 2: Spinach Leaf Lab Due (50 points)	Notes:	Notes: - Lab 2: The Barf Bag Due (50 points)* **HOMECOMING**

Biology Lesson Plans for the Week of ***September 28-Oct. 2***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how the cell cycle and how mitosis produces identical copies of cells.				
Lesson 3.4: Matter Cycling	- Unit 3 Review (Who Wants to be a Milllianaire)	- Unit 3 Exam (100 points)	- Unit 3 Exam Review	**No School**

- Unit 3 Review: Photosynthesis & Cellular Respiration Simulation - Unit 3: Metabolism & Energy Phenomenon Explanation			- Unit 4: Genetics & Heredity Phenomenon	
Lesson 3.4: Matter Cycling - Unit 3 Review: Photosynthesis & Cellular Respiration Simulation - Unit 3: Metabolism & Energy Phenomenon Explanation	- Unit 3 Review (Who Wants to be a Milllianaire)	- Unit 3 Exam (100 points)	- Unit 3 Exam Review - Unit 4: Genetics & Heredity Phenomenon	**No School**
Notes:	Notes:	Notes:	Notes:	Notes: **No School**

October 5-9: Fall Break!

Biology Lesson Plans for the Week of ***October 12-16***				
Monday	**Tuesday**	**Wednesday**	**Thursday**	**Friday**
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how genetic variation in a population comes from sexual reproduction. I can explain how meiosis produces gametes with half the number of chromosomes. I can describe how crossing-over and independent assortment create genetic variation. I can explain how fertilization restores chromosome number and combines genetic information from two parents.				
Start Unit 4: Genetics & Heredity **Lesson 4.1: Inheritance & Reproduction** - Activity 1: Asexual vs. Sexual Reproduction Review	**Lesson 4.2: The Cell Cycle (Interphase)** - Review Activity 1: DNA Replication Model	**Lesson 4.2: The Cell Cycle (M & C)** - Review Activity 2: Mitosis Spinner - Activity 2: Mitosis Review	**Lesson 4.3: Meiosis** - Activity 3: Meiosis Review - Review Activity 3: Mitosis vs. Meiosis Whodunnit?	- Review Activity 3: Mitosis vs. Meiosis Whodunnit?

-**Start Unit 4: Genetics & Heredity** **Lesson 4.1: Inheritance & Reproduction** - Activity 1: Asexual vs. Sexual Reproduction Review	**Lesson 4.2: The Cell Cycle (Interphase)** - Review Activity 1: DNA Replication Model	**Lesson 4.2: The Cell Cycle (M & C)** - Review Activity 2: Mitosis Spinner - Activity 2: Mitosis Review	**Lesson 4.3: Meiosis** - Activity 3: Meiosis Review - Review Activity 3: Mitosis vs. Meiosis Whodunnit?	**Lesson 4.4: Heredity (Mendelian & Non-Mendelian)**
Notes:	Notes:	Notes:	Notes:	Notes:

Biology Lesson Plans for the Week of ***October 19-23***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can explain how genetic variation in a population comes from mutations and sexual reproduction. I can use data and probability to show how traits vary and are distributed within a population.				
Lesson 4.4: Heredity (Mendelian Traits) - Activity 4: Punnett Square Review (Monohybrid)	**Lesson 4.4: Heredity (Mendelian Traits)** - Activity 4: Punnett Square Review (Dihybrid)	**Lesson 4.4: Heredity (Non-Mendelian Traits)** - Activity 4: Punnett Square Review (Non-Mendelian)	**Lesson 4.5: The Central Dogma** - Activity 5: Protein Synthesis	**Lesson 4.6: Mutations** - Activity 6: Mutations Review
- Review Activity 4: Punnett Square Practice	- Activity 4: Dragon Genetics	- Activity 4: Dragon Genetics	**Lesson 3.4: The Central Dogma** - Activity 5: Protein Synthesis	**Lesson 4.6: Mutations** - Activity 6: Mutations Review
Notes: **Club Day**	Notes:	Notes: - Activity 4: Punnett Square Review Due (50 Points) - Activity 4: Dragon Genetics Due (50 points)	Notes: - Activity 5: Protein Synthesis Due (25 points)	Notes: - Activity 6: Mutations Review Due (25 points)

Biology Lesson Plans for the Week of ***October 26-30***

Monday	Tuesday	Wednesday	Thursday	Friday
Unit 4: Genetics & Heredity (HS-LS1-4, HS-LS3-1; HS-LS1-1; HS-LS3-2) I can use data and probability to show how traits vary and are distributed within a population.				

- Unit 4: Phenomenon Explanation - Unit 4: Content Analysis	- Unit 4 Review: Jeopardy!	- Unit 4 Exam (100 points)	- Unit 4 Exam Review - Unit 5: Natural Selection & Biodiversity Phenomenon	- Review Activity 1: One Fish, Two Fish, Red Fish Blue Fish **Unit 5: Natural Selection & Biodiversity**
- Unit 4: Phenomenon Explanation - Unit 4: Content Analysis	- Unit 4 Review: Jeopardy!	- Unit 4 Exam (100 points)	- Unit 4 Exam Review - Unit 5: Natural Selection & Biodiversity Phenomenon	- Review Activity 1: One Fish, Two Fish, Red Fish Blue Fish **Unit 5: Natural Selection & Biodiversity**
Notes:	Notes:	Notes:	Notes:	Notes: