**2020-2021 School Year Weekly Calendar**

***Short Weeks Are In Red***

**First Six Weeks**

**Week 1, August 12th-14th**

* The Scientific Process
	+ Scientific Inquiry

**Week 2, August 17th-21st**

* The Scientific Process
	+ Hypothesis, Theories, and Laws
	+ Laboratory Safety
	+ Collecting and Organizing Data

**Week 3, August 24th -28th**

* The Scientific Process
	+ Analyzing data and drawing conclusions
	+ Assessing claims and evidence
	+ Unit test

**Week 4, August 31st –September 4th**

* The Chemistry of Life
	+ Characteristics of Life
	+ Macromolecules

**Week 5, September 8th- 11th**

* The Chemistry of Life
	+ Catalysts

**Week 6, September 14th- 18th**

* The Chemistry of Life
	+ Unit Test
* Cellular Structure
	+ Prokaryotic and Eukaryotic cells

**Second Six Weeks**

**Week 1, September 21st -25th**

* Cellular Structure
	+ The function of organelles
	+ Animal and Plant cells

**Week 2, September 28th –October 2nd**

* Cellular Structure
	+ Cell homeostasis
	+ Lab: Diffusion across a semi-permeable membrane

**Week 3, October 5th -9th**

* Cellular Structure
	+ Unit Test
* Cellular Energy and Reproduction
	+ The Process of Photosynthesis

**Week 4, October 13th -16th**

* Cellular Energy and Reproduction
	+ Cellular Respiration

**Week 5, October 19th – 23rd**

* Cellular Energy and Reproduction
	+ Cell Cycle
	+ Mitosis

**Week 6, October 26th – 30th**

* Cellular Energy and Reproduction
	+ Meiosis
	+ Cell Differentiation and Specialization
	+ Unit Test

**Third Six Weeks**

**Week 1, November 2nd -6th**

* DNA and Protein Synthesis
	+ Genetic Code
	+ DNA and RNA Structure

**Week 2, November 9th – 13th**

* DNA and Protein Synthesis
	+ Protein Synthesis
	+ Lab: Building proteins from RNA

**Week 3, November 16th – 20th**

* DNA and Protein Synthesis
	+ DNA mutations
	+ Unit Test

**Week 4, November 30th – December 4th**

* Genetics and Heredity
	+ Intro to Genetics
	+ Laws of Inheritance
	+ Probability of Inheritance

**Week 5, December 7th – 11th**

* Genetics and Heredity
* Lab: Mouse Genetics (One trait)
	+ Non- Mendelian Inheritance
	+ Lab: Mouse Genetics (Two Traits)

**Week 6, December 14th – 18th**

* Genetics and Heredity
	+ Applications of DNA technology
	+ Unit Test
	+ Cumulative exam

**Fourth Six Weeks**

**Week 1, January 5th – 8th**

* Natural Selection and Evolution
	+ Darwin’s Theory

**Week 2, January 11th – 14th**

* Natural Selection and Evolution
	+ Lab: Natural Selection
	+ Factors Affecting Genetic Variation

**Week 3, January 19th -22nd**

* Natural Selection and Evolution
	+ Factors Affecting Biological Diversity
	+ Biogeographic Isolation

**Week 4, January 25th -29th**

* Natural Selection and Evolution
	+ Biological Evidence and the Fossil Record
	+ Evolutionary Relationships
	+ Unit Test

**Week 5, February 1st -5th**

* Introduction to Ecology
	+ Organizational Hierarchy
	+ Biomes
	+ Cycles of Matter

**Week 6, February 8th -12th**

* Introduction to Ecology
	+ Population Size and Structure
	+ Succession and Extinction
	+ Unit Test

**Week 7, February 16th – 19th**

* Interactions Between Organisms
	+ Relationships among organisms
	+ Lab: Interdependence of Organisms

**Fifth Six Weeks**

**Week 1, February 22nd – 26th**

* Interactions Between Organisms
	+ Energy Flow in Ecosystems
	+ Human Impact on the Environment
	+ Unit Test

**Week 2, March 1st – 5th**

* Understanding Organisms
	+ Methods of Classification
	+ The Kingdoms

**Week 3, March 8th -11th**

* Understanding Organisms
	+ Types of Plants
	+ Plant Structures

**Week 4, March 22nd – 26th**

* Understanding Organisms
	+ Life Cycle of Plants
	+ Unit Test

**Week 5, March 29th – April 1st**

* Human Body Part 1
	+ Body Organization

**Week 6, April 5th – 9th**

* Human Body Part 1
	+ The Nervous System
	+ The Cardiovascular System

**Week 7, April 13th – 16th**

* Human Body Part 1
	+ The Respiratory System
	+ The Digestive and Excretory System

**Sixth Six Weeks**

**Week 1, April 19th -23rd**

* Human Body Part 1
	+ The Respiratory System
	+ The Digestive and Excretory Systems

**Week 2, April 26th -30th**

* Human Body Part 1
	+ The Endocrine and Exocrine Systems
	+ Unit Test

**Week 3, May 3rd -7th**

* Human Body Part 2
	+ The Reproductive System
	+ The Immune System

**Week 4, May 10th – 14th**

* Human Body Part 2
	+ Human Health

**Week 5, May 17th -21st**

* Human Body Part 2
	+ Lab: Disease Spread

**Week 6, May 24th -26th**

* Human Body Part 2
	+ Cumulative Exam