**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