**7th Grade Integrated Science Curriculum**

**Scope & Sequence**

1st Quarter – I. *Life: Structure and Function*

2nd Quarter – II. *Life: Changes and Interactions*

3rd Quarter – III. *Energy and Matter*

4th Quarter – IV. *Earth: A Dynamic Planet & Exploring the Universe*

1. **Life: Structure and Function**
   1. Module 1 – Classifying and Exploring Life
      1. Lesson 1 – Characteristics of Life
      2. Lesson 2 – Classifying Organisms
      3. Lesson 3 – Exploring Life
   2. Module 2 – Cell Structure and Function
      1. Lesson 1 – Cells and Life
      2. Lesson 2 – The Cell
      3. Lesson 3 – Moving Cellular Material
      4. Lesson 4 – Cells and Energy
   3. Module 3 – From a Cell to an Organism
      1. Lesson 1 – The Cell Cycle and Cell Division
      2. Lesson 2 –Levels of Organization
   4. Module 4 – Reproduction of Organisms
      1. Lesson 1 – Sexual Reproduction and Meiosis
      2. Lesson 2 – Asexual Reproduction
      3. Lesson 3 –

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1. **Life: Changes and Interactions**
   1. Module 5 – Genetics
      1. Lesson 1 – Mendel and His Peas
      2. Lesson 2 – Understanding Inheritance
      3. Lesson 3 – DNA and Genetics
   2. Module 6 – The Environment and Change Over Time
      1. Lesson 1 – Fossil Evidence of Evolution
      2. Lesson 2 – Theory of Evolution by Natural Selection
      3. Lesson 3 – Biological Evidence of Evolution
   3. Module 7 – Plant Processes and Reproduction
      1. Lesson 1 – Energy Processing in Plants
      2. Lesson 2 – Plant Responses
      3. Lesson 3 – Plant Reproduction
   4. Module 8 – Interactions of Living Things
      1. Lesson 1 – Ecosystems and Biomes
      2. Lesson 2 – Populations and Communities
      3. Lesson 3 – Energy and Matter

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1. **Energy and Matter**
   1. Module 9 – Foundations of Chemistry
      1. Lesson 1 – Classifying Matter
      2. Lesson 2 – Physical Properties
      3. Lesson 3 – Physical Changes
      4. Lesson 4 – Chemical Properties and Changes
   2. Module 10 – The Periodic Table
      1. Lesson 1 – Using the Periodic Table
      2. Lesson 2 – Metals
      3. Lesson 3 – Nonmetals and Metalloids
   3. Module 11 – Using Energy and Heat
      1. Lesson 1 – Forms of Energy
      2. Lesson 2 – Energy Transfers and Transformations
      3. Lesson 3 – Particles in Motion

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1. **Earth: A Dynamic Planet & Exploring the Universe**
   1. Module 12 – The Earth System
      1. Lesson 1 – Earth Systems an Interactions
      2. Lesson 2 – The Geosphere
   2. Module 13 – Earth’s Changing Surface
      1. Lesson 1 – Plate Tectonics
      2. Lesson 2 – Earthquakes and Volcanoes
      3. Lesson 3 – Weathering, Erosion, and Deposition
   3. Module 14 – Earth’s Atmosphere
      1. Lesson 1 – Describing Earth’s Atmosphere
      2. Lesson 2 – Describing Weather
      3. Lesson 3 – Climates of Earth
   4. Module 15 – Motion, Forces, and Newton’s Laws
      1. Lesson 1 – Describing Motion
      2. Lesson 2 – Forces
      3. Lesson 3 – Newton’s Laws of Motion
   5. Module 16 – The Sun-Earth-Moon System
      1. Lesson 1 – Earth’s Motion
      2. Lesson 2 – Earth’s Moon
      3. Lesson 3 – Eclipses and Tides
   6. Module 17 – Exploring our Solar System
      1. Lesson 1 – Our Solar System
      2. Lesson 2 – Life in the Solar System
      3. Lesson 3 – Human Space Travel

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