SCIENCE YEAR AT A GLANCE - Grade 3

Unit 1: Scientific Practices Estimated Time To Complete: 15 Sessions Estimated Window: August 24- September 14	Unit 2: Forces of Motion Estimated Time To Complete: 25 Sessions Estimated Window: September 15- October 21	Unit 3: Plants and Animals Estimated Time To Complete: 30 Sessions Estimated Window: November 1- January 29	Unit 4: Fossils and Ecosystems Estimated Time To Complete: 25 Sessions Estimated Window: February 1- April 8
Essential Standard(s): **3_SC_1:** Students will use scientific and engineering practices to conduct investigations and solve problems. **Learning Targets:** · **3_SC_1_A** Ask questions based on observation to find more information about the natural and/or designed world. · **3_SC_1_B** Define a simple problem that can be solved through the development of a new or improved object or tool · **3_SC_1_C** Develop a simple model based on evidence to represent a proposed object or tool to solve a problem. · **3_SC_1_D** Analyze data from tests of an object or tool to determine if it works as intended. · **3_SC_1_E** Conduct an investigation in collaboration with peers using the scientific method. · **3_SC_1_F (Math)** Measure and estimate liquid volumes and masses of objects using standard units of grams, kilograms, and liters. · **3_SC_1_G** Obtain information using grade appropriate texts, informational text features, and other media that will be useful in answering a scientific question.	**Essential Standard(s):** **3_SC_2** Students will investigate and understand the interactions of forces between objects and magnets. **Learning Targets:** · **3_SC_2_A** Observe and measure consistent patterns of motion to predict future motion. · **3_SC_2_B** Carry out investigations to determine the effect of balanced and unbalanced forces on an object. · **3_SC_2_C** Determine cause and effect relationships of electric and magnetic interactions between two objects not in contact with each other. · **3_SC_2_D** Develop a plan using the properties of magnets and the forces between them to solve a problem. · **3_SC_2_E** Describe Earth's gravity as a force that pulls objects toward the Earth without touching the object.	**Essential Standard(s):** **3_SC_3** Students will analyze and understand the traits and life cycles of plants and animals. **Learning Targets:** · **3_SC_3_A** Sequence the life cycle of an organism. · **3_SC_3_B** Explain how similarities are the basis for classification of animals. · **3_SC_3_C** Identify inherited traits and how they vary between similar organisms. · **3_SC_3_D** Understand that the environment can influence traits of organisms. · **3_SC_3_E** Explain how variations of traits can provide advantages in surviving and finding mates.	**Essential Standard(s):** **3_SC_4** Students will analyze fossils and ecosystems. **Learning Targets:** · **3_SC_4_A** Construct an argument that some animals form groups that help members survive. · **3_SC_4_B** Understand that changes in an ecosystem can affect the plants and animals that live there. · **3_SC_4_C** Explain, with evidence, that in a particular ecosystem some organisms can survive well, some survive less well, and some cannot survive at all. · **3_SC_4_D** Analyze fossils to describe the types of organisms that lived long ago and the environments in which they lived.

Unit 5: Weather and Climate Estimated Time To Complete: 20 Sessions Estimated Window: April 11- May 6			
Essential Standard(s): **3_SC_5** **Students will analyze and predict weather and climate patterns.** **Learning Targets:** ·　**3_SC_5_A** **Understand that scientists record weather patterns to make predictions about what might happen next.** ·　**3_SC_5_B** **Observe, measure, and record weather data.** ·　**3_SC_5_C** **Obtain and combine information to describe different climate regions.** ·　**3_SC_5_D** **Identify natural hazards and their impact on society.** ·　**3_SC_5_E** **Explain current technologies used to reduce environmental impacts of weather and natural hazards.**			