5th Grade Science
Year at a Glance (YAG)
2019-2020

First Semester	Second Semester
1st Nine Weeks – 40 days (August 19th – October 15th) *(September 2nd – Labor day – No School)* *(October 14th – Staff Development)*	**3rd Nine Weeks – 45 days** (January 6th – March 17th) *(January 20th – MLK – No School)* *(March 9th – 13th – Spring Break)*
Introduction: Processes for Scientific Investigations (2 days) Introducción: Procesos para investigaciones científicas This unit allows for the establishment of science procedures, including safety and notebooking. 5.1A, 5.1B, 5.2A B C D E F G, 5.3A, 5.3B, 5.3C, 5.4A **Unit 01: Investigating Physical Properties of Matter (22 days)** Investigando las propiedades físicas de la materia Students use scientific practices and a variety of tools to investigate and classify matter by its physical properties, and explore, compare, and contrast mixtures, including solutions. 5.1A, 5.1B, 5.2A, 5.2B, 5.2C, 5.2D, 5.2F, 5.2G, 5.3A, 5.4A, 5.5A, 5.5B, 5.5C **Unit 02: Investigating Forms of Energy (21 days)** Investigando formas de energía Students engage in investigations to explore the uses of mechanical, light, thermal, electrical, and sound energy. They demonstrate that the flow of electricity in closed circuits can produce light, heat, or sound. 5.1A, 5.2A, 5.2B C D E F, 5.3A, 5.3B, 5.4A, 5.6A, 5.6B, 5.6C	**Unit 05: Investigating Water and Weather Patterns (9 days)** Investigando patrones de agua y clima Students differentiate between weather and climate, and explain how the Sun and the ocean interact in the water cycle, making connections to prior learning in the context of thermal energy and changes in state of matter. 5.1A, 5.1B, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.4A, 5.8A, 5.8B **Unit 06: Investigating Sun, Earth, and Moon Systems (16 days)** HMH Module 7 Investigando el sol, la tierra y los sistemas lunares Students identify and compare the physical characteristics of the Sun, Earth, and Moon. Students demonstrate that Earth rotates on its axis once approximately every 24 hours causing the day/night cycle and the apparent movement of the Sun across the sky. 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.3C, 5.4A, 5.8C, 5.8D **Unit 07: Investigating Ecosystem Interactions (15 days)** Investigando interacciones en ecosistemas Students observe the way organisms live and survive in their ecosystem by interacting with the living and nonliving components, and describe the flow of energy through food webs and predict how changes in the ecosystem affect the food web. 5.1A, 5.1B, 5.2B C D F, 5.3B, 5.3C, 5.4A, 5.9A, 5.9B, 5.9C
2nd Nine Weeks – 43 days (October 16th – December 20st) *(November 25th – 29th – Thanksgiving Break)* *(December 23rd – January 3rd – Holiday Break)*	**4th Nine Weeks – 45 days** (March 18th – May 21rd) *(April 10th – Good Friday – No School)* *(April 24th – Battle of Flowers – No School)* *(May 25th – Memorial Day – No School)*
Unit 02: Investigating Forms of Energy (continued) **Unit 03: Investigating Forces (7 days)** Investigando fuerzas Students demonstrate safe practices while designing a simple experimental investigation that tests the effect of force on an object. Additionally, students communicate and discuss their observations and record data in their notebooks. Furthermore, students consider environmentally appropriate and ethical practices with resources during investigations. 5.1A, 5.2A, 5.2B, 5.2C, 5.2D, 5.2E, 5.2F, 5.2G, 5.3A, 5.3B, 5.3C, 5.4A, 5.6D **Unit 04: Investigating Earth's Changes (13 days)** Investigando cambios de la tierra HMH Module 3 Students investigate how landforms such as deltas, canyons, and sand dunes are the result of changes to Earth's surface by forces caused by wind, water, and ice. Students explore the processes responsible for the formation of sedimentary rocks and fossil fuels. 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.3C, 5.4A, 5.7A, 5.7B	**Unit 08: Investigating Structures and Behaviors of Organisms (10 days)** HMH Modules 5 & 10 Investigando estructuras y comportamientos de organismos Students compare the structures and functions of different species that help them live and survive in a specific environment. Students also differentiate between inherited traits of plants and animals and learned behaviors. 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3C, 5.4A, 5.10A, 5.10B **Unit 09: Investigating Fossils and Environments (5 days)** Investigando fósiles y ambientes Students use models to identify fossils as evidence of past living organisms and the nature of the environments at the time. 5.1A, 5.2B, 5.2C, 5.2D, 5.2F, 5.3A, 5.3B, 5.4A, 5.9D **Unit 10: Student-Designed Investigations (10 days)** Investigaciones diseñadas por estudiantes Students describe, plan, and implement *simple experimental investigations* testing one variable. This will involve designing a fair test in which a control is identified. This includes formulating and developing a hypothesis, writing procedures, selecting and using equipment, collecting data, analyzing and interpreting results, and communicating valid conclusions. 5.1A, 5.1B, 5.2A B C D E F G, 5.3A, 5.3B, 5.3C, 5.4A