CURRICULUM MAP

Subject: Science

Glencoe Science ISBN# 0-02-828316-3

Grade Level: 5

revised Fall 2018 to reflect NYSSLS

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Disciplinary Core Idea	Cross-Cutting Concepts:	Disciplinary Core Idea:	Disciplinary Core Idea:
 : Engineering Design NYSSLS: 3- 5-ETS1-1; 3-5-ETS1-2; 3-5-ETS1-3 > Define problems reflecting a need or a want; including specified criteria for success and constraints on materials, time, or cost. > Generate and compare multiple possible solutions to a problem based on the criteria and constraints of the problem. > Plan and carry out fair tests in which variables are controlled; identify aspects of a model or prototype that can be improved. Cross-Cutting Concepts: > Influence of Science, Engineering, and Technology on Society and the Natural World Science & Engineering Practices: > Asking Questions & Defining Problems > Planning & Carrying Out Investigations > Constructing Explanations & Designing Solutions 	 Scale, Proportion & Quantity Cause & Effect Patterns Science & Engineering Practices: Analyzing and Interpreting Data Engaging in Argument from Evidence Disciplinary Core Idea Earth's Systems NYSSLS: 5-ESS2-1; 5-ESS2-2; 5-ESS2-3 Develop a model to describe ways the geosphere, biosphere, hydrosphere, and/or atmosphere interact. Describe and graph the amounts of salt water and fresh water in various reservoirs to provide evidence about the distribution of water on Earth. Obtain and combine information about ways individual communities use science ideas to protect Earth's resources and environment. 	 Measurement NYSSLS: 5-PSI-2; 5-PSI-3 Measure and graph quantities to address scientific and engineering questions and problems. Describe and graph quantities to address scientific questions. Describe and graph quantities to address scientific questions. Represent data in graphical displays to reveal patterns that indicate relationships Disciplinary Core Idea: Structure and Properties of Matter NYSSLS: 5-PSI-1, 5-PSI-2; 5-PSI-3, 5-PSI-4 Develop a model to describe that matter is made of particles too small to be seen. Measure and graph quantities to provide evidence to support the Law of Conservation of Matter Make observations and measurements to identify materials based on their properties. Conduct an investigation to determine whether the mixing of two or more substances results in new substances 	 Matter and Energy in Organisms and Ecosystems NYSSLS: 5-PS3-1; 5-LS1-1; 5-LS2-1 Use models to describe that energy in animals' food was once energy from the Sun. Support an argument that plants get the materials they need for growth chiefly from air and water. Develop a model to describe the movement of matter among plants (producers), animals (consumers), decomposers, and the environment. Cross-Cutting Concepts: Systems and System Models Energy and Matter Science & Engineering Practices: Developing & Using Models Engaging in Argument from Evidence Mechanisms for Natural Events
 Space Systems: Stars and the Solar System NYSSLS: 5-PS2-1; 5-ESS1-1; 5-ESS1-2 ➤ Support an argument that Earth's gravitational force is directed down. ➤ Support an argument that differences in apparent brightness of the Sun compared to other stars is due to their relative distances from Earth. ➤ Graph data to reveal patterns of change in length and direction of shadows, day & night, seasonal appearance of stars 	 Scale, Hoportion & Quality Systems and System Models Empirical Evidence Science & Engineering Practices: Developing and Using Models Using Mathematics and Computational Thinking Obtaining, Evaluating, and Communicating Information 	 Cross-Cutting Concepts: Scale, Proportion & Quantity Cause & Effect Patterns Science & Engineering Practices: Developing & Using Models Using Mathematics & Computational Thinking Planning and Carrying Out Investigations 	