CURRICULUM MAP

revised Summer 2018 to reflect NYSSLS

Subject: Science Grade Level: 8

Glencoe Science Level Blue ISBN# 9780078778100

FIRST QUARTER	SECOND QUARTER	THIRD QUARTER	FOURTH QUARTER
Disciplinary Core Ideas: Interactions of Life NYSSLS:MS-LS2-1; MS-LS-2-3 Living Earth Populations Interactions among living organisms Matter & Energy in Organisms & Ecosystems NYSSLS: MS_LS2-2; LS-1.C; LS2.A; LS2.B; PS3.D The Non-living Environment	Disciplinary Core Ideas: Space Systems NYSSLS: NS-ESSI-1; MS-ESSI-2; MS-ESSI-3; ESSI.B Sun-Earth-Moon System o Earth o The Moon-Earth's Satellite o Exploring Earth's moon The Solar System o Inner/Outer Planets o Geocentric & Heliocentric Models o Meteors, Meteorites, & Moons Structure and Properties of Matter NYSSLS: MS-PSI-1; MS-PI-2; MS-PSI-2; MS-PS I-5; MS-PS I-6; PSI.B; PS3.A Inside the Atom o Sub-atomic Particles o Models of Atomic Structure o The Nucleus The Periodic Table o Representative Elements Atomic Structure & Bonding o Why Atoms Combine o How Elements Bond Cross-Cutting Concepts: Cause & Effect Scale, Proportion & Quantity Systems & System Models Energy & Matter Structure & Function Stability & Change	Disciplinary Core Ideas: Structure and Properties of Matter Con't. Chemical Reactions O Synthesis & Decomposition O Rate of Reaction O Exothermic vs. Endothermic Reactions O Solubility Curves Forces & Interactions NYSSLS: MS-PS 2-1; MS-PS 2-2; PS 2.4; PS 2.8; MS-PS 2-3; MS-PS 2-5MS-PS 3-6 Motion & Momentum O Motion O Acceleration O Momentum Force & Newton's Laws O Newton's 1st Law O Newton's 3rd Law O Law of Conservation of Energy Physical Interactions O Electricity: electric charge, currents, circuits O Magnetism: what is magnetism, relationship between electricity & magnetism O Waves: amplitude & frequency, behavior of waves O Sound O Light Cross-Cutting Concepts: Patterns Cause & Effect Scale, Proportion & Quantity Energy & Matter	Disciplinary Core Ideas: Review for Lab Practical NYSSLS: MS-PS 1-7;MS-PS 2-1; MS-PS 3-1;MS-LS 2-2; Microscope skills & field of view Measuring density Inclined planes Classification Administration of Lab Practical Review for NYS Written Assessment NYSSLS: MS ESS 2-1;MS-ESS2-2; MS-ESS2-3; ESS1.C;ESS2.B;MS-ESS3-1; 3-5-ETS1-1; 3-5_ETS1-2; 3-5-ETS1-3 Topographic maps S & P graphs Human organ systems Rock cycle Graph reading Simple machines Mineral identification Administration of NYS Written Assessment Introduction to Earth Science Topics MS-ESS2; MS-ETS1-1; MS-ETS1-2; MS-ETS1-3; MS-ETS1-4 Lab format Use of Reference Tables Map Reading Contour maps Weather maps Cross-Cutting Concepts: Patterns Cause & Effect Scale, Proportion & Quantity Systems & System Models Energy & Matter Structure & Function

Systems & System Models Energy & Matter Stability & Change Science & Engineering Practices: Asking Questions & Defining Problems Developing & Using Models Analyzing & Interpreting Data Constructing Explanations & Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating & Communicating Information	Science & Engineering Practices: Asking Questions & Defining Problems Developing & Using Models Analyzing & Interpreting Data Using Mathematics & Computational Thinking Constructing Explanations & Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating & Communicating Information	Structure & Function Stability & Change Science & Engineering Practices: Asking Questions & Defining Problems Developing & Using Models Planning & Carrying Out Investigations	Science & Engineering Practices: Asking Questions & Defining Problems Developing & Using Models Planning & Carrying Out Investigations Analyzing & Interpreting Data Using Mathematics & Computational Thinking g Explanation s& Designing Solutions Argument from Evidence Obtaining, Evaluating &
		Analyzing & Interpreting Data Using Mathematics & Computational Thinking Constructing Explanation s& Designing Solutions Engaging in Argument from Evidence Obtaining, Evaluating & Communicating Information	