



Lab-Aids Correlations for

New York City PK-8 Science Scope and Sequence 2018¹

Middle Level, Grades 6-8

Lisa Kelp, Curriculum Specialist, Lab-Aids

Mark Koker, Ph D, Director of Curriculum and Professional Development, Lab-Aids

This document is intended to show the alignment of our third (NGSS) edition SEPUP programs with the New York City PK-8 Scope and Sequence 2018.

ABOUT OUR PROGRAMS

All LAB-AIDS core science programs are research-based and emphasize direct experience and an inquiry approach to teaching and learning science. Since 1963, our programs have provided robust support for literacy skill development and have featured assessment approaches and strategies to document what all students should know and be able to do as a result of program use. Our programs feature extensive use of instructional technology and include comprehensive teacher professional development support. For more information, please visit www.lab-aids.com and navigate to the program of interest.

ABOUT SEPUP

Materials from the Science Education for Public Understanding Program (SEPUP) are developed at the Lawrence Hall of Science, located since 1987 at the University of California, Berkeley, and are distributed nationally by Lab-Aids. SEPUP materials were developed with the support of grants from the National Science Foundation. The third edition (3e) program materials feature 2018-19 copyright and publication dates and fully support the instructional shifts and three-dimensional learning targets identified in the middle level performance expectations (PEs) of the Next Generation Science Standards². The middle school program is comprised of 17 units from the life, earth, and physical sciences and were field tested in selected school systems across the country prior to commercial publication. For more information, please visit www.sepuplhs.org.

RECOMMENDED SEPUP UNIT SCOPE AND SEQUENCE FOR NEW YORK CITY

Grade 6	Grade 7	Grade 8
Fields and Interactions (available Jan 2019)	Chemistry of Materials	Force and Motion (available Aug 2018)
Energy	Chemical Reactions	Solar System and Beyond
Ecology	From Cells to Organisms	Reproduction
Land, Water, and Human Interactions	Body Systems	Evolution
Weather and Climate	Earth's Resources	Waves
	Geological Processes	

¹ https://www.weteachnyc.org/media2016/filer_public/c8/f8/c8f8c331-596f-4705-b445-b35dc3e2adb3/science_scope_and_sequence.pdf

² <https://www.nextgenscience.org/>

UNIT ALIGNMENT TO NYC PE 6-8 GRADE LEVEL BUNDLES

These grade level documents were prepared with information on the Learning Pathway documents designed by SEPUP to guide their work on the NGSS redesign project. The Pathways show a single PE, and the treatment of the elements – the DCI, SEP, and CCC – in activities within the units to show how the PE standard is addressed. For more information, visit <http://www.sepuplhs.org/pathways.html>.

Grade 6

NYC Unit	Unit Title	Performance Expectations ³	Where found in SEPUP 3e ⁴	Suggested SEPUP Units
1	Electricity and Magnetism	MS-PS2-3	Fields and Interactions TBA	Fields and Interactions
		MS-PS2-5	Fields and Interactions TBA	
		MS-PS3-6	Fields and Interactions TBA	
2	Engineering and Energy Transformation	MS-PS1-6 [†]	Chemical Reactions	Energy
		MS-PS3-3	Energy 1, 7, 8, 9, 10, 11, 12*	
		MS-PS3-4	Energy 1, 4, 6, 7, 8*	
3	Ecosystems	MS-LS2-1	Ecology 1, 2, 5, 6, 7, 8, 9*	Ecology
		MS-LS2-2	Ecology 2, 6, 7, 8, 10*	
		MS-LS2-3	Ecology 7, 8, 11, 12*	
		MS-LS2-4	Ecology 1, 2, 3, 4, 5, 6, 12, 13, 14*	
		MS-LS2-5	Ecology 2, 3, 4, 5, 13, 14, 15*	
4	Investigating Weather and Climate	MS-PS1-7	Chemistry of Materials ⁵	Land, Water, and Human Interactions
		MS-ESS2-4	Land, Water, and Human Interactions 2, 5, 7, 8, 9*	
		MS-ESS2-5 [†]	Weather and Climate 2, 3, 4, 7, 9, 10, 11, 12, 13*	
		MS-ESS2-6 [†]	Weather and Climate 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 13, 14*	
5	Human Impact on Earth's Climate	MS-ESS3-2 [†]	Geological Processes 1, 3, 4, 6, 7, 8, 11, 18*	Weather and Climate
		MS-ESS3-3 [†]	Land, Water, and Human Interactions 2, 3, 4, 5, 6, 9, 13, 14, 15, 16*	
		MS-ESS3-5	Weather and Climate 1, 14, 15, 16*	

^{3 †} Indicates standard covered in the Grade 7 SEPUP Scope and Sequence

^{4 *} Indicates opportunity to assess the PE

⁵ This New York standard is covered in the Grade 7 SEPUP Scope and Sequence.

Grade 7

NYC Unit	Unit Title	Performance Expectations⁶	Where found in SEPUP 3e	Suggested SEPUP Units
1	Structure and Properties of Matter	MS-PS1-1	Chemistry of Materials 2, 6, 7, 11, 12*	Chemistry of Materials
		MS-PS1-4	Chemistry of Materials 7, 9, 10*	
		MS-PS1-7	Chemistry of Materials ⁷	
		MS-PS1-8	Chemistry of Materials ⁷	
2	Changing Properties of Matter	MS-PS1-2	Chemical Reactions 1, 2, 3, 4, 5*	Chemical Reactions
		MS-PS1-5	Chemical Reactions 1, 2, 3, 4, 5, 6, 7*	
		MS-PS1-3	Chemistry of Materials 1, 2, 3, 4, 5, 11, 12, 13*	
		MS-LS1-6	From Cells to Organisms 12, 13*	
		MS-LS1-7	From Cells to Organisms 5, 11* Body Systems 5	
3	Structures of Life	MS-LS1-1	From Cells to Organisms 1, 2, 3, 4, 5, 6, 7, 8, 9*	From Cells to Organisms
		MS-LS1-2	From Cells to Organisms 4, 6, 7, 8*	
		MS-LS1-3	From Cells to Organisms 10, 14, 15 Body Systems 1, 2, 3, 4, 9, 10, 11, 12*	Body Systems
		MS-LS1-8	Body Systems 6, 7, 8*	
4	Geology	MS-ESS1-4	Earth's Resources 9, 10, 11, 12*	Earth's Resources
		MS-ESS2-1	Geological Processes 2, 5, 8, 9, 10, 11, 13, 14, 15*	
		MS-ESS2-2	Geological Processes 2, 3, 4, 6, 7, 9, 10, 11, 12, 13*	
		MS-ESS2-3	Geological Processes 10, 11, 12, 13, 14*	
5	Minimizing Human Impact Through Engineering Design	MS-ESS3-1	Earth's Resources 1, 2, 3, 5, 7*, 14*	Geological Processes
		MS-ESS3-4	Earth's Resources 4, 6, 13*	
		MS-ESS3-2	Geological Processes 1, 3, 4, 6, 7, 8, 11, 18*	
		MS-ESS3-3 [‡]	Land, Water, and Human Interactions 2, 3, 4, 5, 6, 9, 13, 14, 15, 16*	

⁶ ‡ Indicates standard covered in the Grade 6 SEPUP Scope and Sequence

⁷ This New York standard is covered in the *Chemistry of Materials* unit.

Grade 8

NYC Unit	Unit Title	Performance Expectations	Where found in SEPUP 3e	Suggested SEPUP Units
1	Energy, Forces, and Motion	MS-PS2-1	Force and Motion TBA	Force and Motion
		MS-PS2-2	Force and Motion TBA	
		MS-PS3-1	Force and Motion TBA	
		MS-PS2-4 [‡]	Fields and Interactions TBA	
		MS-PS3-2	Fields and Interactions TBA	
		MS-PS3-5 [‡]	Energy 2, 3, 4, 5, 6	
2	Earth's Place in the Universe	MS-PS2-4 [‡]	Fields and Interactions TBA	Solar System and Beyond
		MS-ESS1-1	Solar System and Beyond 2, 3, 4, 5*, 6, 7, 8, 9*	
		MS-ESS1-2	Solar System and Beyond 10, 11, 12, 14, 15, 16*	
		MS-ESS1-3	Solar System and Beyond 1, 10, 11, 12, 13*	
3	Growth, Development, and Reproduction of Organisms	MS-LS1-4	Reproduction 9, 10*, 11*	Reproduction
		MS-LS1-5	Reproduction 1, 7*	
		MS-LS3-1	Reproduction 1, 3, 7, 8, 12, 13*	
		MS-LS3-2	Reproduction 1, 2, 3, 4, 5, 6, 7, 8, 9*	
4	Evolution, Natural Selection, and Adaptations	MS-LS4-1	Evolution 7, 8, 9, 10, 11*	Evolution
		MS-LS4-2	Evolution 7, 8, 9, 10, 11, 12*	
		MS-LS4-3	Evolution 12, 13*	
		MS-LS4-4	Evolution 1, 2, 3, 4*	
		MS-LS4-6	Evolution 1, 2, 3, 4, 5, 6*	
5	Evolution of Technology in Science	MS-PS4-1	Waves 1, 2, 3, 4, 7*	Waves
		MS-PS4-2	Waves 3, 8, 9, 10, 11, 12, 13*	
		MS-PS4-3	Waves 5, 6*	
		MS-LS4-5	Evolution 14, 15, 16*	