LIVING ENVIRONMENT

For the purposes of this document, a period is defined as a 45-minute block of time and is meant to be for planning only.

first term: september – january

UNIT 1 Scientific Inquiry (10 periods)		UNIT 2 Origin of Life (3 periods)		UNIT 3 Ecology (22 periods)		UNIT 4 Organization and Patterns in Life (20 periods)		UNIT 5 Homeostasis and Immunity (25 periods)	
• The Role of Scientific Inquiry in Studying Biology	Standard 1–1.1a, 1.1b, 1.1c, 3.1, 3.2, 3.3	• Formation of First Cells from Molecules	3.1a, 3.1j	• Relationships	1.1c, 1.1d, 6.1g, 6.2a, 6.2b, 6.3a	• Cell Structure	1.2a, 1.2e, 1.2g, 1.2i	• Body System Overview	1.2a, 1.2b, 1.2c, 1.3a
• The Methods of Science	Standard 1–1.2a, 1.2b, 1.3a, 1.3b, 2.1, 2.2, 2.3a, 2.3b, 2.3c, 2.4, 3.4a, 3.4b, 3.4c, 3.5a, 3.5b	• The Nature of Prokaryotes	1.3a, 3.1j	• Interactions	1.1a, 1.1b, 1.1d, 1.1e, 1.1f, 6.1a, 6.1b, 6.1c, 6.1d, 6.1e, 6.1f, 6.3b, 6.3c	• Cell Physiology	1.2c, 1.2f, 1.2g, 1.2i, 1.3a	• Homeostasis and Feedback Systems	1.1e, 1.2d, 5.2a, 5.2b, 5.2h, 5.2j, 5.3a, 5.3b
						• Cell Chemistry	1.2h, 1.2j, 5.1c, 5.1f, 5.1g		
						• Photosynthesis	5.1a, 5.1b	• Immune Response	5.2c, 5.2d, 5.2e, 5.2f, 5.2g, 5.2j
						• Respiration	5.1d, 5.1e, 5.1f		
						• Diffusion and Osmosis	1.2g		
						• Mitosis	4.1a, 4.1b		

Scientific Inquiry (i.e., asking questions, making discoveries, gathering data, analyzing explanations and communication) is an integral component of this course.

The right hand column in each unit represents the Major Understandings taken from the New York State Living Environment Core Curriculum, Standard 4, available at www.emsc.nysed.gov/ciai/mst/scirg.html

Science Process Skills from Standards 1, 2, 6 and 7 should be used in conjunction with this scope and sequence.

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second term: february – june

UNIT 6 Reproduction and Development (30 periods)		UNIT 7 Genetics and Biotechnology (25 periods)		UNIT 8 Evolution (15 periods)		UNIT 9 Human Influences on the Environment (15 periods)		UNIT 10 Review (10 periods)
• Meiosis	4.1c	• Mendel Overview	Intermediate Core Curriculum LE 2.2a, 2.2b, 2.2c	• Natural Selection	3.1a, 3.1b, 3.1c, 3.1d, 3.1e, 3.1f, 3.1g, 3.1h, 3.1i, 3.1j, 3.1k, 6.2a	• Positive Influences	7.1a, 7.1b	• First-Term Topics
• Reproductive Systems	2.1d, 4.1a, 4.1e, 4.1f, 4.1g	• DNA/RNA	2.1a, 2.1b, 2.1c, 2.1f	• Evidence	3.1l	• Negative Influences	7.1c, 7.2a, 7.2b, 7.2c	• Regents Exam Prep
• Fertilization	2.1e, 4.1c	• Protein Synthesis	2.1g, 2.1i, 2.1j, 2.1k			• Decision Making (Risk/Benefit)	7.3a, 7.3b	
• Development	4.1d, 4.1e, 4.1h	• Diseases	2.2e, 5.2h					
• Stem Cells		• Mutations	2.1h, 2.2d, 2.2e, 5.2i					
		• Bio-engineering	2.2a, 2.2b, 2.2c					
		• Bioethics	1.2c					

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