

NGSS Scope and Sequence for 2016/2017

	Trimester 1 Earth Science		Trimester 2 Physical Science		Trimester 3 Life Science
Kindergarten	Weather and Climate STEMscopes Units: -Weather Conditions -Measurement of Weather -Weather Hazards	Engineering Launch	Forces and Interactions: Pushes and Pulls STEMscopes Units: -Pushes and Pulls -Speed and Direction	Engineering Unit Balls and Ramps	Interdependent Relationships in Ecosystems: Animals, Plants and Their Environment STEMscopes Units: -Animals Needs -Plant Needs -Habitats -Reducing Human Impact
	Trimester 1 Engineering Unit Begin Earth Science Unit (Space)		Trimester 2 Earth Science Physical Science		Trimester 3 Life Science
Grade 1	EIE: A Work in Process - Improving the Playdough Process		Space Systems: Patterns and Cycles Waves: Light and Sound		Structure, Function and Information Processing
	Trimester 1 Engineering Unit Earth Science		Trimester 2 Physical Science		Trimester 3 Life Science Engineering Unit
Grade 2	EIE: Catching the Wind: Designing Windmills	Earth's Systems: Processes that Shape the Earth	Structure and Properties of Matter		Interdependent Relationships in Ecosystems EIE: The Best of Bugs: Designing Hand Pollinators

	Trimester 1 Physical Science Life Science		Trimester 2 Life Science		Trimester 3 Life Science Earth Science	
Grade 3	PHYSICAL SCIENCE UNIT: Forces and Interactions Objects and Motion Electric and Magnetic Forces EiE: The Attraction is Obvious: Designing Maglev Systems	LIFE SCIENCE UNIT: Part I Life Cycles - From Molecules to Organisms: Structures and Processes Social and Group Behavior - Ecosystems: Interactions, Energy, and Dynamics	LIFE SCIENCE UNIT: Part II Inheritance and Variation of Traits Environmental Traits	LIFE SCIENCE UNIT: Part III Plant and Animal Extinction - Biological Evolution: Unity and Diversity Fossils EiE: Solid as a Rock: Replicating an Artifact	LIFE SCIENCE UNIT: Part IV Survival of the Fittest : Unity and Diversity Adaptations Environmental Changes and Effects	EARTH SCIENCE UNIT: Weather and Climate - Earth's Systems/Earth and Human Activity Weather and Climate Processes and Impact of Natural Hazards
	Trimester 1 Physical Science		Trimester 2 Life Science		Trimester3 Earth Science	
Grade 4	Energy <ul style="list-style-type: none"> ● Speed vs. energy ● Energy transfer ● Device to convert energy, etc 	Waves: Waves and Information EiE: Lighten Up Designing Lighting Systems (Optical Engineering)	Structure, Function, and Information Processing <ul style="list-style-type: none"> ● plants/animals ● Senses ● Light within eye 	Earth's Systems: Processes That Shape the Earth EiE: A Stick in the Mud: Evaluating a Landscape (Geotechnical Engineering)		

Grade 5						
Grade 5 *Earth's Systems and Space Systems will be added in 17/18	Trimester 1 Physical Science		Trimester 2 Physical Science	Trimester 2 Life Science	Trimester3 Life Science	
	Structure & Properties of Matter				Matter & Energy in Organisms and Ecosystems	
	T1 - Matter and Its Interactions STEMscopes Modules <i>1.1. Matter is Everywhere</i> <i>1.2. Matter Changing States</i> <i>1.3. Properties of</i> <i>1.4. Matter Mixtures</i>		T2 - Motion and Stability: Forces and Interactions STEMscopes Module 2.1. Gravity STEMscopes Module Energy: 3.1. Energy Transfer	T2 -From Molecules to Organisms: Structures and Process STEMscopes: 4.1. Plant Structures	T3 - Ecosystems: Interactions, Energy, and Dynamics STEMscopes Modules: <i>5.1 Food Webs</i> <i>5.2 Basic Needs</i> <i>5.3 Ecosystems</i> <i>5.4 Matter Cycles</i>	
	EiE Lighten Up		EiE A Stick in The Mud (16/17 only)			