

KINDERGARTEN

Bundle		Scopes	PEs
1	Humans and the Needs of Organisms	Animal Needs	K-LS1-1 K-ESS2-2 K-ESS2-3
		Plant Needs	
		Reducing Human Impact	
2	Dealing with Weather	Weather Conditions	K-ESS2-1 K-ESS3-2 K-PS3-1 K-PS3-2
		Weather Patterns	
		Weather Hazards	
		Energy from the Sun	
3	Living Things and Their Habitats	Habitats	K-ESS2-2 K-ESS3-1
		Organisms' Impact on Environments	
		Uses of Natural Resources	
4	Using Force to Change Motion	Pushes and Pulls	K-PS2-1 K-PS2-2
		Speed and Direction	

1ST GRADE

Bundle		Scopes	PEs
1	Design From Nature	Parts of Animals	1-LS1-1
		Animal Survival	
		Parts of Plants	
		Plant Survival	
2	Parents and Their Offspring	Protecting the Young	1-LS1-2 1-LS3-1
		Animal Trait Inheritance and Variation	
		Plant Trait Inheritance and Variation	
3	Patterns in the Sky	Seasonal Patterns	1-ESS1-1 1-ESS1-2
		Patterns in Space	
4	Communicating with Light and Sound	Sound	1-PS4-1 1-PS4-2 1-PS4-3 1-PS4-4
		Behavior of Light	
		Communication	



2ND GRADE

Bundle		Scopes	PEs
1	Organisms – Needs and Interactions	What Plants Need	2-LS2-1 2-LS2-2 2-LS4-1
		Animal and Plant Dependence	
		Diversity of Living Things	
2	Dealing With Changes to the Earth	Quick Changes to Land	2-ESS1-1 2-ESS2-1
		Slow Changes to Land	
		Effects of Wind and Water	
3	Mapping Land and Water	Mapping Our World	2-ESS2-2 2-ESS2-3
		Forms of Water on Earth	
4	Selecting and Using Materials in the Design Process	Properties and States of Matter	2-PS1-1 2-PS1-2 2-PS1-3 2-PS1-4
		Properties of Materials	
		Building Blocks of Matter	
		Changes from Heat	



3RD GRADE

	Bundle	Scopes	PEs
1	Animal Development and Survival	Life Cycles	3-LS1-1 3-LS2-1
		Social and Group Behavior	
2	Environments and the Traits of Organisms	Inheritance and Variation of Traits	3-LS3-1 3-LS3-2 3-LS4-3 3-LS4-4
		Environmental Traits Adaptations	
		Environmental Changes and Effects	
3	Organisms Change Over Time	Plant and Animal Extinction	3-LS4-1 3-LS4-2
		Fossils	
		Survival of the Fittest	
4	Dealing with Hazardous Weather Worldwide	Weather and Climate	3-ESS2-1 3-ESS2-2 3-ESS3-1
		Processes and Impacts of Natural Hazards	
5	Using Magnetic Force	Objects and Motion	3-PS2-1 3-PS2-2 3-PS2-3 3-PS2-4
		Electric and Magnetic Forces	



4TH GRADE

Bundle		Scopes	PEs
1	Organism Structures and Behavior	Plant and Animal Parts	4-LS1-1 4-LS1-2
		Sense Receptors	
2	Changes Over Time to Earth's Surface and Resources	Rock Patterns	4-ESS1-1 4-ESS2-1 4-ESS2-2 4-ESS3-1 4-ESS3-2
		Changing Land	
		Plate Tectonics	
		Renewable and Nonrenewable Resources	
		Natural Processes	
3	Using Energy Transformations	Energy Transfer and Electric Currents	4-PS3-1 4-PS3-2 4-PS3-3 4-PS3-4
		Transfer of Energy in Collision	
		Energy and Speed	
		Using Stored Energy	
4	Communicating Using Wave Energy	Motion of Waves	4-PS4-1 4-PS4-2 4-PS4-3
		Wavelength and Amplitude	
		Light Reflection	
		Information Technologies	



5TH GRADE

Bundle		Scopes	PEs
1	Matter and Energy Flow in an Ecosystem	Energy Transfer	5-LS1-1 5-LS2-1 5-PS3-1
		Matter and Energy in Plants	
		Food Webs	
		Matter Cycles	
		Ecosystems	
2	Observing Our Sky	Earth's Rotation	5-ESS1-1 5-ESS1-2 5-PS2-1
		Observing the Stars	
		Objects in the Sky	
		Gravity	
3	Human Impact on the Earth's Systems	Earth's Systems Interactions	5-ESS2-1 5-ESS2-2 5-ESS3-1
		Water Sources	
		Reducing the Human Footprint	
4	Interactions in Matter	Matter Is Everywhere	5-PS1-1 5-PS1-2 5-PS1-3 5-PS1-4
		Properties of Matter	
		Changes to Matter	
		Mixtures	

The order of the instructional bundles in STEMscopes NGSS is suggested but not required. Bundles, and even scopes, can be adjusted to fit the needs of individual campuses, districts, and teachers.