Little Scientists® Curriculum Scope and Sequence

A "hands-on" approach to learning.

Science & Engineering Practices	Crosscutting Concepts	Disciplinary Core Ideas	Pre-Kindergarten 3 years old	Pre-Kindergarten 4 years old	Kindergarten	First Grade	Second Grade	Third Grade	Fourth Grade	Fifth Grade	Sixth Grade	Seventh Grade	Eighth Grade
Asking questions & defining problems,	Patterns	Physical Science	What Sticks?	What is a Magnet?		Magnets	Gravity	Pressure		What is Gravity?	What is Alternative Energy?	Energy of Motion	Electricity & Magnetism
									Electricity				
			Will it Roll?	Will it Bounce?	What is a Force?		Transportation	What are Properties of Magnets?	Simple Machines	Complex Machines		What are Complex Machines?	Building Bridges
								Force & Motion	Flight				Motion & Forces
Developing & using models,	Causation		What are the Primary Colors?	How Do Colors Mix?	What is Color?		What are Materials?	Mixtures	What is Energy?	Science of Polymers	What is the Structure& Properties of Matter?		Mixtures & Solutions
						Molecular Matter	States of Matter	What is Chemistry?		Separating & Purifying			Chemistry
Planning & carrying out investigations,				Will it Float?	Floating & Sinking		What is Water?	Buoyancy	Light & Sound	What are Chemicals?			
	Scale			What is a Bubble?	Light & Mirrors	What is Light?		Crystals	Optics & Mirrors	Lenses			
						What is Sound?			What are the Structures of Organisms?				
Analyzing & interpreting data,	Systems	Life Science	What are Dinosaurs?	Why Do Leaves Fall?	What is the Season of Fall?	What are Plants?	Life Cycle of Plants	Plants & Animals	What are Plant Adaptations?	How are Organisms Classified?	What is Photosynthesis?		
			What is a Plant?	What is an Animal?	What is Winter?	What are Animals?			What are Senses?		What are Animal Adaptations?		
											What is Evolution?		
Using mathematics & computational thinking,			Who am I?	What Makes Me Healthy?	What are my Five Senses?	Health	Nutrition	What is Evolution?	What is Healthy?	Senses	Cells & Microorganisms	Human Biology Systems	Human Reproduction
						Human Body							
Constructing explanations & designing solutions,	Energy				What is an Ecosystem?	What are Life Cycles?	What is Diversity?	What is Heredity?			What is DNA, Cells, & Heredity?	Cells & Organs	Heredity & Genetics
					Coastal Community		Ponds	Seashore	Ecosystems	What is Energy Flow in an Ecosystem?		Ecology & Energy Flow	
					What is a Rainforest?				Oceans				
Engaging in argument from evidence,	Structure & Function	Earth & Space Science	What is Nature?	Why is it Cold Outside?	What is Weather?		Weather	What is Climate?	How does Weather Affect Earth?	How can we protect Earth's Resources?	What is Weather & Climate?	How Does Water Affect Landforms?	
			What is Sand?					Conservation	Water Cycle		Why is Water Essential?		
								Fossils & Dinosaurs					
			What is Water?	Why Do Flowers Grow?	What is our Planet Earth?		Sand or Soil	Rocks & Minerals	What are Landforms on Earth?		Rocks & Minerals	What are Landforms on Earth?	Our Earth in the Solar System
						What is Our Sun?	What are Landforms ?			Stars & Constellations			What is Astronomy?
Obtaining, evaluating, & communicating information	Stability & Change				What is Spring?	What is the Solar System?	Seasons		What Defines Our Solar System?	Why do we have Changing Seasons?			What Makes the Changing Seasons?
		Engineering Technology & Application of Science	What are Shapes?	Can We Build It?	What are Engineers?		What is Engineering?			What is Innovative Engineering?	What is Engineering Design?		