Scope and Sequence for Science/Kindergarten
2026-2027

Unit Title	Duration	Essential Question(s)	Standards
Unit One: *Living Things and Their Needs*	8/24/2026 – 11/20/2026 **60 Instructional Periods**	How do organisms live, grow, respond to their environment, and reproduce?	**PA STEELS Standards** **3.1.K.A:** Use observations to describe patterns of what plants and animals (including humans) need to survive. **3.3.K.B:** Construct an argument supported by evidence for how plants and animals (including humans) can change the environment to meet their needs. **3.3.K.C :** Use a model to represent the relationship between the needs of different plants or animals (including humans) and the places they live. **3.3.K.E:** Communicate solutions that will reduce the impact of humans on the land, water, air, and/or other living things in the local environment. **3.5.K-2.D:** Select ways to reduce, reuse, and recycle resources in daily life. **3.5.K-2.E:** Illustrate helpful and harmful effects of technology. **3.5.K-2.BB:** Compare the natural world and human-made world. **3.4.K-2.A:** Categorize ways people harvest, redistribute, and use natural resources. **3.4.K-2.B:** Examine how people from different cultures and communities, including one's own, interact and express their beliefs about nature. **3.4.K-2.C:** Explain ways that places differ in their physical characteristics, their meaning, and their value and/or importance. **3.4.K-2.D:** Plan and carry out an investigation to address an issue in the local environment and community.
Unit Two: *Push and Pull*	11/23/2026– 3/5/2027 **60 Instructional Periods**	How can one explain the structure, properties, and interactions of matter? How is energy transferred and conserved?	**PA STEELS Standards** **3.2.K.B:** Plan and conduct an investigation to compare the effects of different strengths or different directions of pushes and pulls on the motion of an object. **3.2.K.A:** Analyze data to determine if a design solution works as intended to change the speed or direction of an object with a push or a pull.

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Unit Three: *Weather and Sky*	3/8/2027 – 6/4/2027 **60 Instructional Periods**	How and why is Earth constantly changing? How do Earth's processes and human activities affect each other?	**PA STEELS Standards** **3.3.K.A:** Use and share observations of local weather conditions to describe patterns over time. **3.3.K.D:** Ask questions to obtain information about the purpose of weather forecasting to prepare for, and respond to, severe weather. **3.5.K-2.Y:** Discuss how the way people live and work has changed throughout history because of technology. 3**.2.K.C:** Make observations to determine the effect of sunlight on Earth's surface. **3.2.K.D:** Use tools and materials to design and build a structure that will reduce the warming effect of sunlight on an area. **3.4.K-2.B:** Examine how people from different cultures and communities, including one's own, interact and express their beliefs about nature.