Scope and Sequence for Science/Grade 2
2026-2027

Unit Title	Duration	Essential Question(s)	PA STEELS Standards
Unit One: *Ecosystem Diversity*	8/24/2026 – 11/20/2026 **60 Instructional Periods**	How and why do organisms interact with their environment and what are the effects of these interactions? How can there be so many similarities among organisms yet so many different kinds of plants, animals, and microorganisms?	3.1.2.A Plan and conduct an investigation to determine if plants need sunlight and water to grow. 3.1.2.B Develop a simple model that mimics the function of an animal in dispersing seeds or pollinating plants. 3.1.2.C Make observations of plants and animals to compare the diversity of life in different habitats.
Unit Two: *Matter*	11/23/2026– 3/5/2027 **60 Instructional Periods**	How can one explain the structure, properties, and interactions of matter?	3.2.2.A Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties. 3.5.K-2.B Describe qualities of everyday products. 3.2.2.B Analyze data obtained from testing different materials to determine which materials have the properties that are best suited for an intended purpose. 3.2.2.C Make observations to construct an evidence based account of how an object made of a small set of pieces can be disassembled and made into a new object. 3.5.K-2.P Discuss that all designs have different characteristics that can be described. 3.2.2.D Construct an argument with evidence that some changes caused by heating or cooling can be reversed and some cannot.
Unit Three: *Earth Materials*	3/8/2027 – 6/4/2027 **60 Instructional Periods**	How and why is Earth constantly changing?	3.3.2.A Use information from several sources to provide evidence that Earth events can occur quickly or slowly. 3.3.2.B Compare multiple solutions designed to slow or prevent wind or water from changing the shape of the land. 3.3.2.C Develop a model to represent the shapes and kinds of land and bodies of water in an area. 3.3.2.D Obtain information to identify where water is found on Earth and that it can be solid or liquid. 3.2.2.A Plan and conduct an investigation to describe and classify different kinds of materials by their observable properties.

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