

MATHEMATICS

PreK



The [Indiana Early Learning Foundations](#) provide a progression of learning on what children should know, understand, and be able to do from birth through age five. These foundations align to the Indiana Academic Standards as well as to the PreK curriculum in Noblesville Schools but are not a curriculum on their own. The Indiana Early Learning Foundations are supported through curriculum maps and a selection of curriculum materials to support these maps. These curriculum maps and materials are aligned to the Indiana Early Foundations while progressing at a pacing that is meeting the needs of all PreK learners. Therefore, the Noblesville Schools' curriculum is constantly undergoing periodic and systematic analysis and revision.

In PreK, instructional time is focused on the key components of English/language arts, mathematics, social emotional skills, approaches to play and learning, science, social studies, creative arts, and physical health and growth. The [Indiana Early Learning Foundations](#) serve as the groundwork of our curriculum. These PreK foundations are supported in Noblesville Schools through curriculum materials for mathematics instruction.



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PreK Units for Mathematics

The [Indiana Early Learning Foundations](#) provide a progression of learning on what children should know, understand, and be able to do from birth through age five. These foundations align to the Indiana Academic Standards as well as to the PreK curriculum in Noblesville Schools.

Table 1: PreK Units for Reading

PreK Math Unit Overview	PreK Math Units Learning Outcomes Learners will...
Colors <i>This unit is designed to focus on a variety of colors.</i>	Engage in explorations with colors and distinguish between various colors.
Introduction to Sorting Math <i>This unit is designed to focus on the concepts of same and different.</i>	See the visual difference by sorting sets of objects into three different color categories - red, yellow & blue. Practice sorting by color.
Introduction to Shapes <i>This unit is designed to focus on basic shapes, sides, and vertices.</i>	Identify basic shapes and learn about sides and vertices. Identify the attributes for each shape and what makes each shape unique. Use the name of two-dimensional shapes (e.g., square; triangle; circle) when identifying objects.
Introductions to Patterns <i>This unit is designed to be an introduction to basic AB patterns.</i>	Explore patterns in real life. Recognize and extend an AB pattern.
Introduction to Positional Words <i>This unit is designed to be an introduction to positions in space.</i>	Place something (object, person, etc.) based on which position word is given. Identify where something is placed using position terminology.

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<p>PreK Math Unit Overview</p>	<p>PreK Math Units Learning Outcomes Learners will...</p>
<p>Introduction to Comparing Math <i>This unit is designed to be an introduction in identifying more and less.</i></p>	<p>Correctly use the words for comparing quantities.</p>
<p>Introduction to Measurement <i>This unit is designed to be an introduction to how to describe and compare items of different size, length, and weight.</i></p>	<p>Use measurement terms to describe the degree of measurement (adding “er” or “est” to the measurement term - long, longer, longest).</p>
<p>Complex Sorting <i>This unit is designed to focus on the aspects of complex sorting and classifying.</i></p>	<p>Sort and classify by different attributes (color, shape, size).</p>
<p>Complex Patterning <i>This unit is designed to focus on the creation and extension of complex patterns.</i></p>	<p>Build patterns using various manipulatives. Understand what comes next within a pattern sequence.</p>
<p>Complex Shapes <i>This unit is designed to focus on understanding of 2D and 3D shapes.</i></p>	<p>Identify the difference between 2D and 3D shapes. Describe attributes of 2D and 3D shapes.</p>
<p>Complex Comparing <i>This unit is designed to focus on understanding of more than, less than, and equal to.</i></p>	<p>Identify more than, less than, and equal within sets. Identify more than, less than, and equal within written number sets.</p>
<p>Complex Measurement <i>This unit is designed to support students on length and capacity with given tools.</i></p>	<p>Accurately measure length and capacity. Measure length and (volume) capacity with non-standard measurement tools.</p>
<p>Estimation and Data <i>This unit is designed to focus on the creation and description of simple graphs and sorting and classifying.</i></p>	<p>Understand the purpose of a graph. Transfer data points using 1:1 correspondence to gather data. Demonstrate understanding of sorting.</p>

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PreK Math Unit Overview	PreK Math Units Learning Outcomes Learners will...
Combining Sets <i>This unit is designed to use 1:1 correspondence to add from sets of numbers.</i>	Use 1:1 correspondence to count a set. Use knowledge of addition to combine sets of numbers. Begin to understand that numbers can be composed and decomposed to create new numbers.
Subtracting Sets <i>This unit is designed to use 1:1 correspondence to subtract from sets of numbers.</i>	Use 1:1 correspondence to count a set. Use knowledge of subtraction to take away from a given set. Understand that numbers can be composed and decomposed to create new numbers.