

Mathematics

Kindergarten



The Indiana Academic Standards define what students should know, understand, and be able to do at grade level beginning in kindergarten and progressing through grade twelve. These standards serve as the foundation to our curriculum in Noblesville Schools but are not a curriculum on their own. The Indiana Academic Standards are supported through grade-level curriculum maps and a selection of curriculum materials to support these maps. These curriculum maps and materials are aligned to the Indiana Academic standards while also meeting the needs of all learners. Therefore, the Noblesville Schools' curriculum is constantly undergoing periodic and systematic analysis and revision.

- PS.1: Make sense of problems and persevere in solving them.
- PS.2: Reason abstractly and quantitatively.
- PS.3: Construct viable arguments and critique the reasoning of others.
- PS.4: Model with mathematics.
- PS.5: Use appropriate tools strategically.
- PS.6: Attend to precision.
- PS.7: Look for and make use of structure.
- PS.8: Look for and express regularity in repeated reasoning.

In kindergarten, instructional time is focused on the key components of the process standards for mathematics, which are embedded throughout core instruction in a balanced math structure. The Process Standards demonstrate the ways in which students should develop conceptual understanding of mathematical content, and the ways in which students should synthesize and apply mathematical skills. The kindergarten Indiana Academic Standards for Mathematics serve as the foundation of our curriculum and encompass key instructional areas of number sense, computation and algebraic thinking, geometry, measurement, and data analysis. These kindergarten standards are supported in Noblesville Schools through curriculum materials for mathematics instruction, including *Indiana Reveal Math by McGraw Hill*.



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Indiana Reveal Math

Indiana Reveal Math by McGraw Hill serves as the primary core curriculum material for all kindergarten learners and provides alignment with the Indiana Academic Standards for Mathematics.

Table 1: Kindergarten Indiana Reveal Math

Mathematics Unit Pacing Varies By Unit	Mathematics Unit Learning Outcomes Learners will...	Mathematics Unit Focus Question
Unit 1: Math Is...	Understand that math is everywhere and part of our daily lives. Develop thinking processes that support math habits of mind. Build understanding of the norms needed to support a productive math environment.	What does it mean to do math?
Unit 2: Numbers to 5	Develop early quantitative reasoning skills to count and compare numbers 0 to 5. Apply strategies of one-to-one correspondence and comparison to determine objects in a group that are greater than, less than, or equal to another group.	How do I count, show, and compare numbers?
Unit 3: Numbers to 10	Develop understanding with numbers to 10. Write numbers through 10. Use counting and comparing methods with numbers through 10.	How do I count, show, compare, and write numbers?
Unit 4: Sort, Classify, and Count Objects	Understand that objects have different characteristics or attributes that define them. Compare numbers of objects in two or three different groups.	How can I use attributes to sort a collection of objects?



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Mathematics Unit Pacing Varies By Unit	Mathematics Unit Learning Outcomes Learners will...	Mathematics Unit Focus Question
Unit 5: 2-Dimensional Shapes	Learn to identify 2-dimensional shapes and define them by their characteristics. Describe the position of these shapes in their environment.	How can I identify 2-dimensional shapes?
Unit 6: Understand Addition	Develop understanding of basic addition concepts to 10 including using drawings and objects, learning the equal and plus signs, and solving word problems.	How can I solve addition word problems?
Unit 7: Understand Subtraction	Develop understanding of basic subtraction concepts to 10 including using objects, drawings, and equations to represent subtraction stories. Draw upon knowledge of decomposing numbers (such as 10 as 7 and 3). Solve subtraction word problems.	How can I solve subtraction word problems?
Unit 8: Addition and Subtraction Strategies	Recognize and represent numbers as combinations of smaller numbers. Practice finding multiple ways to make a given number (compose) or break apart a given number (decompose).	How can I make and decompose numbers in more than one way?
Unit 9: Numbers 11 to 15	Represent a group of 11 to 15 objects. Compose and decompose groups of 11 to 15 objects into tens and some more ones.	How can I represent, make, and decompose numbers 11 to 15?
Unit 10: Numbers 16 to 19	Compose and decompose groups of 16 to 20 objects using tens and ones. Practice writing numerals 16-20.	How can I represent, make, and decompose numbers 16 to 20?



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Mathematics Unit Pacing Varies By Unit	Mathematics Unit Learning Outcomes Learners will...	Mathematics Unit Focus Question
Unit 11: 3-Dimensional Shapes	Make connections to 2-dimensional and 3-dimensional shapes. Identify 3-dimensional shapes and understand its defining characteristics (faces, vertices, etc.). Identify positions of solid shapes in real-world contexts.	How can I identify 3-dimensional shapes?
Unit 12: Count to 100	Count to 100 by 1s and 10s. Recognize patterns as seen on a hundreds chart that relate to groupings of 10. Develop early place-value concepts. Count on from any given number to 100.	How do I count to 100 by 1s and by 10s?
Unit 13: Analyze, Compare, and Compose Shapes	Compare, contrast, and create 2- and 3- dimensional shapes. Distinguish between a 2-dimensional and 3-dimensional shape. Draw and build 2-dimensional and 3-dimensional shapes. Identify 3-dimensional shapes among real-world objects around them.	How can I tell how shapes are alike and different?
Unit 14: Compare Measurable Attributes	Build upon sorting objects by attributes to identifying, describing, and comparing measurable attributes of objects.	How can I describe and compare the length, height, and capacity of objects?
*Indiana Unit: Patterns *Indiana Unit: Time and Temperature		