# Parent Guide <br> Grade Two Mathematics Curriculum Diocese of Cleveland 

Below is a list of skills your child will be taught in Grade Two Mathematics. As parents, you are encouraged to support the work of your child's teacher in helping your child acquire each of these skills.


| Measurement and Data continued |  |
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|  | Measure the length of an object twice, using length units of different lengths for the two measurements; describe how the two measurements relate to the size of the unit chosen. |
|  | Estimate lengths using units of inches, feet, centimeters, and meters. |
|  | Measure to determine how much longer one object is than another, expressing the length difference in terms of a standard length unit. |
| Relate addition and subtraction to length. |  |
|  | Use addition and subtraction within 100 to solve word problems involving lengths that are given in the same units, e.g., by using drawings (such as drawing of rulers) and equations with a symbol for the unknown number to represent the problem. |
|  | Represent whole numbers as lengths from 0 on a number line diagram with equally spaced points corresponding to the numbers $0,1,2, \ldots$, and represent whole-number sums and differences within 100 on a number line diagram. |
| Work with time and money. |  |
|  | Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m. |
|  | Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and $\phi$ symbols appropriately. |
| Represent and interpret data. |  |
|  | Generate measurement data by measuring lengths of several objects to the nearest whole unit, or by making repeated measurements of the same object. Show the measurements by making a line plot, where the horizontal scale is marked off in whole-number units. |
|  | Draw a picture graph and a bar graph (with single-unit scale) to represent a data set with up to four categories. Solve simple put-together, take apart, and compare problems using information presented in a bar graph. |
| Geometry |  |
| Reason with shapes and their attributes. |  |
|  | Recognize and draw shapes having specified attributes, such as a given number of angles or a given number of equal faces. [Sizes are compared directly or visually, not compared by measuring.] |
|  | Partition a rectangle into rows and columns of same-size and count to find the number of them. |
|  | Partition circles and rectangles into two, three, or four equal shares, describe the shares using words halves, thirds, half of, a third of, etc. Describe the whole as two halves, three thirds, four fourths. Recognize that equal shares of identical wholes need not have the same shape. |
| DOC: Numbers, Number Sense and Operations |  |
| Numbers and Number Systems |  |
|  | Count money and make change using coins and a dollar bill. |
|  | Represent and write the value of money using the $\phi$ sign and in decimal form when using the $\$$ sign. |
| Meaning of Operations |  |
|  | Mastery of addition and subtraction facts to 20. |
| Computation and Estimation |  |
|  | Develop and solve word problems by using various strategies; e.g., recognizing "clue" words. |
| DOC: Measurement |  |
| Measurement Units |  |
|  | Identify and select appropriate units of measure for: |
|  | Length -- centimeters, decimeters, meters, inches, feet or yards; |
|  | Volume - liters, cups, pints, quarts, and gallons; |
|  | Weight-grams, kilograms, ounces or pounds; |
|  | Temperature -- Fahrenheit. |
|  | Describe, compare and order the relationships among standard and non-standard units of measure, such as centimeters and meters; inches, feet and yards; cups, pints and quarts; ounces and pounds, hours, half-hours and quarter-hours. |


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| Measurement Techniques and Tools |  |
|  | Estimate and measure the length and weight of common objects, using metric, U.S. customary units, and non-standard units accurate to the nearest unit. |
|  | Select and use appropriate measurement tools. |
| DOC: Data Analysis and Probability |  |
| Data Collection |  |
|  | Read, interpret and make comparisons and predictions from data represented in charts, line plots, picture graphs, bar graphs, and tally charts. |
| OH: CCSS: Literacy: Reading: Informational Text |  |
| Key Ideas and Detalls |  |
|  | Ask and answer such questions as who, what, where, when, why, and how to demonstrate understanding of key details in a text. |
| Craft and Structure |  |
|  | Determine the meaning of words and phrases in a text relevant to a grade 2 topic or subject area. |
| OH: CCSS: Literacy: Writing |  |
| Production and Distribution of Writing |  |
|  | With guidance and support from adults and peers, focus on a topic and strengthen writing as needed by revising and editing. |
| Research to Build and Present Knowledge |  |
|  | Recall information from experiences or gather information from provided sources to answer a question. |
| OH: CCSS: Literacy: Speaking and Listening |  |
| Comprehension and Collaboration |  |
|  | Participate in collaborative conversations with diverse partners about grade 2 topics and texts with peers and adults in small and larger groups. |
|  | Follow agreed-upon rules for discussions (e.g., gaining the floor in respectful ways, listening to others with care, speaking one at a time about the topics and texts under discussion). |
|  | Ask for clarification and further explanation as needed about the topics and texts under discussion. |
| Presentation of Knowledge and Ideas |  |
|  | Produce complete sentences when appropriate to task and situation in order to provide requested detail or clarification. |
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| (Source: [1] National Governors Association Center for Best Practices, Council of Chief State School Officers. 2010. Common Core State Standards for Mathematics. Washington, D.C. National Governors Association Center for Best Practices, Council of Chief State School Officers.[2] Office of Catholic Education. 2007. Mathematics Curriculum. Cleveland, Ohio: Office of Catholic Education.) |  |
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