

# Beverly Grade 2 Curriculum

## *Family Guide*

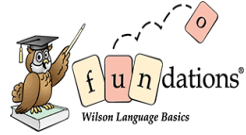


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| Grade: Second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Subject: Math                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
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| Math Programs                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <div data-bbox="362 268 591 338" data-label="Image"> </div> <p data-bbox="107 369 844 548">Zearn helps students explore new concepts, discover meaning and make sense of math. Students use Zearn's digital platform to explore the same math ideas they are learning with their teacher, with interactive models and built-in math help.</p> <ul data-bbox="159 590 841 877" style="list-style-type: none"> <li>• Mission 1: Add and subtract friendly numbers</li> <li>• Mission 2: Explore length</li> <li>• Mission 3: Counting and place value</li> <li>• Mission 4: Add, subtraction and solve</li> <li>• Mission 5: Add and subtract big numbers</li> <li>• Mission 6: Equal groups</li> <li>• Mission 7: Length, money and data</li> <li>• Mission 8: Shapes, time and fractions</li> </ul> <p data-bbox="107 940 451 978"><a href="#">Zearn Helper for Parents</a></p>                                                                                                                                                                                                                                           | <div data-bbox="893 252 1065 417" data-label="Image"> </div> <div data-bbox="1089 285 1528 384" data-label="Text"> <p><b>ST Math</b></p> </div> <p data-bbox="870 468 1437 537">Game-based program that builds deeper conceptual understanding of math.</p> <p data-bbox="1052 541 1365 575"><a href="#">ST Math Family Letter</a></p> <div data-bbox="967 636 1398 1161" data-label="Complex-Block"> <p><b>Standards for Mathematical Practice</b></p> <ol style="list-style-type: none"> <li>1. Make sense of problems and persevere in solving them.</li> <li>2. Reason abstractly and quantitatively.</li> <li>3. Construct viable arguments and critique the reasoning of others.</li> <li>4. Model with mathematics.</li> <li>5. Use appropriate tools strategically.</li> <li>6. Attend to precision.</li> <li>7. Look for and make use of structure.</li> <li>8. Look for and express regularity in repeated reasoning.</li> </ol> </div> |
| Common Assessments                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <ul style="list-style-type: none"> <li>• District created math benchmarks administered in fall, winter and spring.</li> <li>• End of Mission assessments through Zearn.</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <a href="#">End of Second Grade Expectations</a>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <p>By the end of second grade students will be able to:</p> <ul style="list-style-type: none"> <li>• Count to 1,000 by ones, fives, tens and hundreds. Notice patterns as they count.</li> <li>• Mentally (without objects or writing) add and subtract with numbers up to 20.</li> <li>• Fluently (quickly and correctly) add and subtract with numbers up to 100.</li> <li>• Know addition facts up to <math>9 + 9 = 18</math> and their related subtraction facts (ex <math>18 - 9 = 9</math>).</li> <li>• Arrange pairs of objects to tell whether a number is odd or even.</li> <li>• Understand and create visual displays of information, like bar graphs.</li> <li>• Solve one-step and two-step word problems, including problems involving length.</li> <li>• Solve word problems involving dollars and coins with amounts up to \$10.</li> <li>• Use analog and digital clocks to tell time to the nearest five minutes. Write the time.</li> <li>• Separate a rectangle into pieces of equal size. Count the pieces. Understand that the pieces can be the same size without being the same shape.</li> </ul> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |

| Grade: Second                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Subject: English Language Arts                                                                                                                                                                                       |
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| <b>ELA Programs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                      |
|  <p>Wit &amp; Wisdom is a comprehensive English language arts curriculum crafted to help students build the knowledge and skills they need to be successful readers, exceptional writers and effective communicators.</p> <ul style="list-style-type: none"> <li>• Module 1: A Season of Change</li> <li>• Module 2: The American West</li> <li>• Module 3: Civil Rights Heroes</li> <li>• Module 4: Good Eating</li> </ul>                                                                                                                                                                                                                                                                                                                                                         |  <p>Foundations is a multisensory structured literacy program that presents all skills in a systematic and sequential manner.</p> |
|  <p>Geodes are decodable books that students read. These texts combine Foundations phonics instruction with Wit &amp; Wisdom's knowledge building scope and sequence of topics.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                      |
| <b>Common Assessments</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• DIBELS 8 (Dynamic Indicators of Basic Early Literacy Skills) administered in fall, winter and spring.</li> <li>• Wit &amp; Wisdom Assessments</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                      |
| <b><u>End of Second Grade Expectations</u></b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Read aloud in a way that shows they understand what they are reading.</li> <li>• Stop and reread a sentence to figure out the meaning of an unknown word.</li> <li>• Describe what characters do in response to events or problems in a story.</li> <li>• Explain how a picture or diagram helps show what a text is saying.</li> <li>• Gather information from different texts to answer a question</li> <li>• When presenting, speak loudly and clearly enough to be heard and understood.</li> <li>• Print all letters quickly enough to write sentences without losing track of ideas.</li> <li>• Use apostrophes in words like can't, don't, cat's, dog's</li> <li>• Capitalize proper nouns like Thanksgiving, Boston and Cape Cod.</li> <li>• Write poems with patterns of sounds (like rhythm and rhyme)</li> </ul> |                                                                                                                                                                                                                      |

| Grade: Second Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Subject: Social Studies                                                                      |
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| <p align="center"><b>Social Studies Program</b></p> <div align="center">  </div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                              |
| <i>Cornerstones for Civic Engagement: Engaging units that blend civics skills, social studies and literacy</i>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <i>Straight from the Source: Close reading of informational texts and historical sources</i> |
| <u><b>End of Second Grade Expectations</b></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                              |
| <ul style="list-style-type: none"> <li>Identify countries, continents and physical characteristics such as rivers, deserts and peninsulas.</li> <li>Explain how people adapt to the environment they live in and how they change that environment as well.</li> <li>Describe various ways people maintain cultural traditions.</li> <li>Investigate different reasons people migrate and what individuals and families bring with them when they migrate (like memories, objects, ideas, languages and habits).</li> <li>Give examples of goods and services and the choices people make about buying them.</li> <li>Give some reasons people try to save money (like for a future purchase, a charitable donation or an emergency).</li> <li>Explain how visual features like maps, charts and diagrams can help readers understand a history or social science text.</li> </ul> |                                                                                              |

| Grade: Second Grade                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Subject: Science |
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| <b>Science Programs</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                  |
| <div align="center">  </div> <p>Mystery Science is an innovative, standards-aligned, hands-on curriculum that teaches children how to think like scientists. The phenomena-driven instruction helps kids to better understand and communicate about the world around them through writing, discussion and exploration.</p>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| <u><b>End of Second Grade Expectations</b></u>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                  |
| <ul style="list-style-type: none"> <li>Create maps to show the bodies of water (like rivers) and landforms (like mountains) in an area.</li> <li>Explain that water exists on Earth in different places (like lakes) and forms (like ice).</li> <li>Ask questions about how plants and animals depend on their surroundings to meet their needs (like finding food and water).</li> <li>Describe and sort materials by how they look, feel or act: for example, things that are green or things that absorb water.</li> <li>Observe that breaking something does not change its material. For example, tearing a paper in half does not change the fact that it is paper.</li> <li>Explore how heating and cooling things can cause them to change. Understand that some changes (like melting ice) can be reversed but other changes (like cooking an egg) cannot.</li> <li>Compare two ways of solving the same problem and think about which one is better. For example, test two paper bags to find out which is stronger.</li> </ul> |                  |

**To talk to your student about school, you can ask:**

- Can you tell me about something you read today?
- How could you use the math you learned today?
- What scientific ideas did you talk about today?
- How did you contribute to your community today?
- How did someone help you learn today?

| <b>Questions You Can Ask Your Student</b>                                                                                                                                                                                                                                                 | <b>Topics You Can Discuss With Your Student's Teacher</b>                                                                                                                                                                                       |
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| <b>ELA</b>                                                                                                                                                                                                                                                                                | <b>ELA</b>                                                                                                                                                                                                                                      |
| <ul style="list-style-type: none"> <li>• Who is the story about?</li> <li>• What happened in the story?</li> <li>• Would you rather have ___ or ___? Why?</li> </ul>                                                                                                                      | <ul style="list-style-type: none"> <li>• Books and authors to look for at the library</li> <li>• Experiences that can help build your student's vocabulary</li> </ul>                                                                           |
| <b>Math</b>                                                                                                                                                                                                                                                                               | <b>Math</b>                                                                                                                                                                                                                                     |
| <ul style="list-style-type: none"> <li>• How much change will we have after we pay for our snacks with this \$10 bill?</li> <li>• How many juice boxes are in 3 packages?</li> <li>• Would it take more inches or more feet to measure our table? How long do you think it is?</li> </ul> | <ul style="list-style-type: none"> <li>• Which addition and subtraction strategies work best for your student</li> <li>• Games that can help your student practice math at home</li> </ul>                                                      |
| <b>Science</b>                                                                                                                                                                                                                                                                            | <b>Science</b>                                                                                                                                                                                                                                  |
| <ul style="list-style-type: none"> <li>• Which of these towels is better for wiping up water? Why?</li> <li>• Where can we find water near our home? What about hills?</li> <li>• What do plants and animals need to survive?</li> </ul>                                                  | <ul style="list-style-type: none"> <li>• How science relates to everyday situations in your student's life</li> <li>• Places in the community that can help your student learn science</li> </ul>                                               |
| <b>Social Studies</b>                                                                                                                                                                                                                                                                     | <b>Social Studies</b>                                                                                                                                                                                                                           |
| <ul style="list-style-type: none"> <li>• What are some ways people change their environments? What about ways people change because of their environments?</li> <li>• What are some reasons people move to different places around the world?</li> </ul>                                  | <ul style="list-style-type: none"> <li>• Books with maps and other visual features to look for at the library</li> <li>• Places in the community where people work (like homes, schools, stores, restaurants, offices and factories)</li> </ul> |