

## Curriculum Expectations Related to Decimal Numbers

Grade 4	Grade 5	Grade 6
<p><b>Overall Expectations</b></p> <p>By the end of Grade 4, students will:</p> <ul style="list-style-type: none"> <li>• read, represent, compare, and order whole numbers to 10 000, decimal numbers to tenths, and simple fractions, and represent money amounts to \$100;</li> <li>• demonstrate an understanding of magnitude by counting forward and backward by 0.1 and by fractional amounts;</li> <li>• solve problems involving the addition, subtraction, multiplication, and division of single- and multi-digit whole numbers, and involving the addition and subtraction of decimal numbers to tenths and money amounts, using a variety of strategies.</li> </ul>	<p><b>Overall Expectations</b></p> <p>By the end of Grade 5, students will:</p> <ul style="list-style-type: none"> <li>• read, represent, compare, and order whole numbers to 100 000, decimal numbers to hundredths, proper and improper fractions, and mixed numbers;</li> <li>• demonstrate an understanding of magnitude by counting forward and backward by 0.01;</li> <li>• demonstrate and explain equivalent representations of a decimal number, using concrete materials and drawings.</li> <li>• solve problems involving the multiplication and division of multi-digit whole numbers, and involving the addition and subtraction of decimal numbers to hundredths, using a variety of strategies.</li> </ul>	<p><b>Overall Expectations</b></p> <p>By the end of Grade 6, students will:</p> <ul style="list-style-type: none"> <li>• read, represent, compare, and order whole numbers to 1 000 000, decimal numbers to thousandths, proper and improper fractions, and mixed numbers;</li> <li>• solve problems involving the multiplication and division of whole numbers, and the addition and subtraction of decimal numbers to thousandths, using a variety of strategies.</li> </ul>

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<p><b>Specific Expectations</b></p> <p>By the end of Grade 4, students will:</p> <ul style="list-style-type: none"> <li>• <b>represent, compare, and order</b> decimal numbers to tenths, using a variety of tools and using standard decimal notation;</li> <li>• <b>demonstrate</b> an understanding of place value in whole numbers and decimal numbers from 0.1 to 10 000, using a variety of tools and strategies;</li> <li>• <b>count</b> forward by tenths from any decimal number expressed to one decimal place, using concrete materials and number lines;</li> <li>• add and subtract decimal numbers to tenths, using concrete materials and student-generated algorithms.</li> </ul>	<p><b>Specific Expectations</b></p> <p>By the end of Grade 5, students will:</p> <ul style="list-style-type: none"> <li>• <b>represent, compare, and order</b> whole numbers and decimal numbers from 0.01 to 100 000, using a variety of tools;</li> <li>• <b>demonstrate</b> an understanding of place value in whole numbers and decimal numbers from 0.01 to 100 000, using a variety of tools and strategies;</li> <li>• <b>round</b> decimal numbers to the nearest tenth in problems arising from real-life situations;</li> <li>• <b>count</b> forward by hundredths from any decimal number expressed to two decimal places, using concrete materials and number lines;</li> <li>• add and subtract decimal numbers to hundredths, including money amounts, using concrete materials, estimation, and algorithms;</li> </ul>	<p><b>Specific Expectations</b></p> <p>By the end of Grade 6, students will:</p> <ul style="list-style-type: none"> <li>• <b>represent, compare, and order</b> whole numbers and decimal numbers from 0.001 to 1 000 000, using a variety of tools;</li> <li>• <b>demonstrate</b> an understanding of place value in whole numbers and decimal numbers from 0.001 to 1 000 000, using a variety of tools and strategies;</li> <li>• add and subtract decimal numbers to thousandths, using concrete materials, estimation, algorithms, and calculators;</li> </ul>

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	<p><b>Specific Expectations (continued)</b></p> <ul style="list-style-type: none"> <li>multiply decimal numbers by 10, 100, 1000, and 10 000, and divide decimal numbers by 10 and 100, using mental strategies;</li> <li>determine and explain, through investigation using concrete materials, drawings, and calculators, the relationship between fractions (i.e., with denominators of 2, 4, 5, 10, 20, 25, 50, and 100) and their equivalent decimal forms.</li> </ul>	<p><b>Specific Expectations (continued)</b></p> <ul style="list-style-type: none"> <li>multiply and divide decimal numbers to tenths by whole numbers, using concrete materials, estimation, algorithms, and calculators;</li> <li>multiply whole numbers by 0.1, 0.01, and 0.001 using mental strategies;</li> <li>multiply and divide decimal numbers by 10, 100, 1000, and 10 000 using mental strategies;</li> <li>use estimation when solving problems involving the addition and subtraction of whole numbers and decimals, to help judge the reasonableness of a solution;</li> <li>determine and explain, through investigation using concrete materials, drawings, and calculators, the relationships among fractions (i.e., with denominators of 2, 4, 5, 10, 20, 25, 50, and 100), decimal numbers, and percents.</li> </ul>