

**Grade 5**  
**Math Unit 4**  
**Canterbury Public Schools**

<b>Subject</b>	Math
<b>Grade Level</b>	5
<b>Unit Title</b>	Wrapping up Multiplication and Division with Multi-digit Numbers
<b>Unit Goals</b>	<p>Use the standard algorithm to multiply multi-digit whole numbers Divide whole numbers up to four-digits by two-digits using strategies based on place value and properties of operations</p> <p>Section A Multi-digit Multiplication Using the Standard Algorithm Multiply multi-digit whole numbers using the standard algorithms</p> <p>Section B Multi-digit Division Using Partial Quotients Divide multi-digit whole numbers using strategies based on place value, properties of operations, and the relationship between multiplication and division</p> <p>Section C Let's Put it to Work Multiply and divide to solve real-world and mathematical problems involving area and volume</p>
<b>Pacing (# of weeks)</b>	4 - 6 weeks
<b>Standards</b>	5MD.C.3, 5.MD.C.5, 5.NBT.B, NBT.B.5, 5.NF.B.4, 5.OA.A.2, 5.OA.1, 5.OA.2, 5.NBT.1, 5.NBT.2, 5.OA.3
<b>Content/Conceptual Knowledge (know)</b>	<p>Reasonability</p> <p>The relationship between multiplication and division</p> <p>Strategies for multiplying and dividing multi-digit numbers</p> <p>The role of place value in multi-digit operations</p>
<b>Skills (be able to do)</b>	<p>Use long division and multiplication strategies to solve problems with multi-digit numbers</p> <p>Solve word problems involving multiplication and division</p> <p>Break down complex multiplication and division problems into simpler steps</p> <p>Check answers for reasonableness and accuracy</p> <p>Apply strategies to solve real-world problems</p> <p>Solve problems about area and volume</p> <p>Make connections between the partial products in diagrams</p>

	Decompose numbers Deduce reasonability Draw diagrams Use partial products Round and then compensate
<b>Essential Questions</b>	How can we use multiplication and division to solve real-world problems involving multi-digit numbers? What strategies can we use to multiply and divide large numbers accurately and efficiently? Why is understanding the relationship between multiplication and division important for problem solving?
<b>Enduring Understandings</b>	Multiplication and division are inverse operations that can be applied to multi-digit numbers Multi-digit multiplication and division strategies are tools that help solve real-world problems The ability to solve real-world problems involving multi-digit number is a fundamental skill in mathematics
<b>Vocabulary</b>	Reasonable, strategies, inverse operations, long division, accurate
<b>Common Learning Experiences</b>	PLC: Lesson 6, Activity 1, Compose a new unit PLC: Lesson 11, Activity 1, Division Expressions PLC: Lesson 19, Activity 1, Square Kilometers Number Talks Centers Mystery number game boards Small groups Review strategies for multiplication and division, Practice worksheets Review key concepts Work through the process of long division Guided practice Group problem solving Use of visual and manipulatives Math games
<b>Assessments</b>	Warm-ups and cool downs, checkpoints, diagnostic tests, peer problem solving, Unit test,
<b>Resources</b>	Number cards Meter sticks Visual aides

	Worksheets Anchor charts and posters
<b>Strategies</b>	Round and then compensate Visual displays Hands on problem solving Math talks and peer collaboration