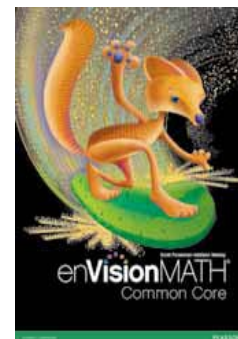
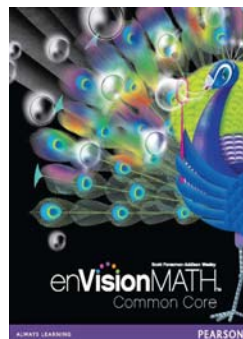
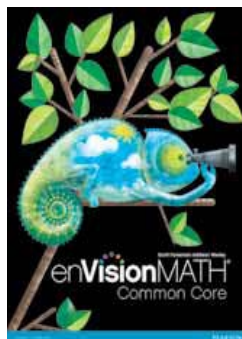
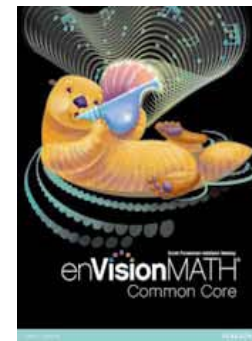
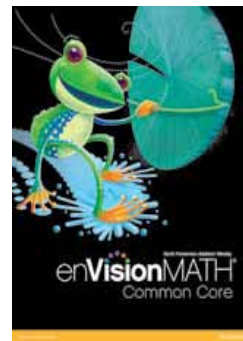
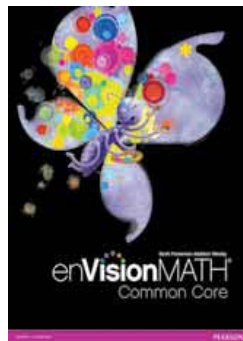
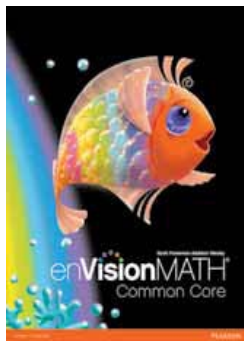


A Correlation of

enVisionMATH™
Common Core ©2012



to the

Archdiocese of Cincinnati Graded Course of Study for Mathematics 2012 Grades K-6

**A Correlation of *enVisionMATH Common Core*
to the Archdiocese of Cincinnati
Graded Course of Study for Mathematics 2012**

Introduction

This document demonstrates how *enVisionMATH Common Core* ©2012 meets the standards of the Archdiocese of Cincinnati Graded Course of Study for Mathematics 2012, Grades K-6. Correlation page references are to the Teacher's Edition and include the Math Diagnosis and Intervention System. Lessons in the Teacher's Edition include facsimile pages of the Student Edition.

enVisionMATH Common Core was written specifically to address the Common Core State Standards and is based on critical foundational research and proven classroom results. It is organized and color-coded by the Common Core Domains, so teaching is highly focused, manageable, and coherent. *enVisionMATH Common Core* teaches all of the standards for mathematical content within a powerful concept-development skeleton grounded on big ideas of mathematics and related essential understandings.

The straightforward 4-Part lesson structure communicates daily to teachers both the Standards for Mathematical Content and Standards for Mathematical Practice that need to be developed with students and the conceptual underpinnings that need to be understood.

enVisionMATH Common Core provides deep conceptual development and understanding through daily Problem-Based Interactive Learning as a core part of instruction. This daily Interactive Learning is then connected with Visual Learning.

The *enVisionMATH Common Core* Student Edition presents content in more visual ways. Page layouts are clean, open, predictable, and easy-to-use. All art is functional, promoting understanding or providing data needed for problems. Visual models are consistent and, whenever possible, the visual and physical models remain the same across lessons to make teaching and learning easier.

The *enVisionMATH Common Core* Teacher's Edition provides an instructional plan for each lesson that reflects the work that highly effective teachers do in the classroom. The Teacher's Edition is visually appealing, easily connecting information (e.g. questions) to its point of use in the text. Teaching is grounded on rich questions and classroom conversations.

Assessment in *enVisionMATH Common Core* is an integral part of instruction, not an interruption. Both skills and understanding are assessed on a daily basis. Daily formative assessment leads to data-driven differentiated instruction, as well as information for interpreting results (diagnosis) and intervention tasks.

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Standard 1 – Numbers, Number Sense And Time	
M.K.1.1 Count to 100 by ones and by tens and count forward from a given number within the known sequence.	SE/TE: Topic 1 3-4, 5-6, 9-10, 11-12 Topic 3 47-48, 51-52, 55-56 Topic 5 93-94, 95-96, 97-98, 99-100 Topic 6 109-110, 113-114, 115-116, 117-118 TE: Topic 1 3A-4C, 5A-6C, 9A-10C, 11A-12C Topic 3 47A-48C, 51A-52C, 55A-56C Topic 5 93A-94C, 95A-96C, 97A-98C, 99A-100C Topic 6 109A-110C, 113A-114C, 115A-116C, 117A-118C
M.K.1.2 Represent quantities with numbers up to 20, verbally, written and using manipulatives.	SE/TE: Topic 1 5-6, 7-8, 11-12, 13-14, 15-16 Topic 2 31-32, 39-40 Topic 3 49-50, 53-54, 57-58 Topic 4 85-86 Topic 5 93-94, 95-96, 97-98, 99-100 TE: Topic 1 5A-6C, 7A-8C, 11A-12C, 13A-14C, 15A-16C Topic 2 31A-32C, 39A-40C Topic 3 49A-50C, 53A-54C, 57A-58C Topic 4 85A-86C Topic 5 93A-94C, 95A-96C, 97A-98C, 99A-100C
M.K.1.3 Solve problems including those involving sets by counting, by using cardinal and ordinal numbers, by comparing, by ordering and by creating sets up to 20.	SE/TE: Topic 1 15-16 Topic 2 33-34, 37-38, 39-40 Topic 3 59-60 Topic 4 67-68, 69-70, 71-72, 73-74, 75-76, 85-86 Topic 5 101-102 Topic 10 199-200 Topic 11 207-208, 215-216 TE: Topic 1 5, 11, 15A-16C Topic 2 23, 37A-38C, 39A-40C Topic 3 53, 59A-60C Topic 4 67, 69, 83, 85A-86C Topic 5 101A-102C Topic 10 199A-200C Topic 11 215A-216C

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M.K.1.4 Solve word problems involving simple joining and separating sets of objects.	<p>SE/TE: Topic 7 127-128, 129-130, 131-132, 139-140 Topic 8 147-148, 149-150, 151-152, 153-154, 161-162</p> <p>TE: Topic 7 127A-128C, 129A-130C, 131A-132C, 133, 137, 139A-140C Topic 8 147A-148C, 149A-150C, 151A-152C, 153A-154C, 153, 155, 157, 159, 161A-162C Topic 9 171, 173, 177, 181 Topic 10 197 Topic 11 209, 211</p>
M.K.1.5 Create and use counting strategies and number patterns to compare whole numbers up to 10 and arrange them in numerical order and recognize the numbers needed to make a 10.	<p>SE/TE: Topic 2 23-24, 25-26, 27-28, 33-34, 35-36 Topic 4 67-68, 69-70, 71-72, 73-74, 75-76, 77-78, 79-80, 81-82, 83-84 Topic 9 181-182</p> <p>TE: Topic 2 23A-24C, 25A-26C, 27A-28C, 33A-34C, 35A-36C Topic 4 67A-68C, 69A-70C, 71A-72C, 73A-74C, 75A-76C, 77A-78C, 79A-80C, 81A-82C, 83A-84C Topic 9 181A-182C</p>
M.K.1.6 Compose and decompose numbers from 11-19 into ten ones and some further ones by using objects or drawings, and equations (such as $18=10+8$)	<p>SE/TE: Topic 5 93-94, 95-96, 97-98, 99-100 Topic 10 193-194, 195-196, 197-198, 199-200 Topic 11 207-208, 209-210, 211-212, 213-214, 215-216</p> <p>TE: Topic 5 93A-94C, 95A-96C, 97A-98C, 99A-100C Topic 10 193A-194C, 195A-196C, 197A-198C, 199A-200C Topic 11 207A-208C, 209A-210C, 211A-212C, 213A-214C, 215A-216C</p>

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M.K.1.7 Model solving routine and non-routine problems by acting them out, using manipulatives and drawing diagrams.	SE/TE: Topic 1 15-16 Topic 2 33-34, 37-38, 39-40 Topic 3 59-60 Topic 4 67-68, 69-70, 85-86 Topic 5 101-102 Topic 6 119-120 Topic 7 139-140 Topic 8 161-162 Topic 10 199-200 Topic 11 207-208, 215-216 TE: Topic 1 15A-16C Topic 2 33A-34C, 37A-38C, 39A-40C Topic 3 59A-60C Topic 4 67A-68C, 69A-70C, 85A-86C Topic 5 101A-102C Topic 6 119A-120C Topic 7 139A-140C Topic 8 161A-162C Topic 10 199A-200C Topic 11 207A-208C, 215A-216C
Standard 2 – Computation And Patterns	
M.K.2.1 Identify and duplicate simple numbers and non-numeric repeating and growing patterns.	SE/TE: Topic 3 59-60 Topic 6 113-114, 115-116, 117-118, 119-120 Topic 11 215-216 TE: Topic 3 59A-60C Topic 6 113A-114C, 115A-116C, 117A-118C, 119A-120C Topic 11 215A-216C
M.K.2.2 Fluently add and subtract within 5.	SE/TE: Topic 7 127-128, 129-130, 131-132, 133-134, 135-136, 137-138, 139-140 Topic 8 147-148, 149-150, 151-152, 153-154, 155-156, 157-158, 159-160, 161-162 Topic 9 169-170, 171-172 TE: Topic 7 127A-128C, 129A-130C, 131A-132C, 133A-134C, 135A-136C, 137A-138C Topic 8 147A-148C, 149A-150C, 151A-152C, 153A-154C, 155A-156C, 157A-158C, 159A-160C Topic 9 169A-170C, 171A-172C

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Standard 3 – Geometry (Dimensional Shapes)	
M.K.3.1 Describe, sort and resort objects using a variety of attributes such as size, shape and position.	SE/TE: Topic 13 245-246, 247-248, 249-250, 251-252, 253-254 TE: Topic 2 40A Topic 13 245A-246C, 247A-248C, 249A-250C, 251A-252C, 253A-254C
M.K.3.2 Identify, name, describe and sort basic two-dimensional shapes such as squares, triangles, circles, rectangles, hexagons and trapezoids.	SE/TE: Topic 14 265-266, 267-268, 269-270, 271-272, 273-274, 279-280 Topic 16 303-304, 305-306, 311-312 TE: Topic 14 265A-266C, 267A-268C, 269A-270C, 271A-272C, 273A-274C, 279A-280C Topic 16 303A-304C, 305A-306C, 311A-312C
M.K.3.3 Use basic shapes, spatial reasoning, and manipulatives to model objects in the environment and to construct more complex shapes.	SE/TE: Topic 14 265-266, 267-268, 269-270, 271-272, 273-274, 275-276, 277-278, 279-280 TE: Topic 14 265-266A, 267-268A, 269-270A, 271-272A, 273-274A, 275-276A, 277, 278A, 279-280C Topic 16 305A-306C, 308A, 309A-310C
M.K.3.4 Identify, name, describe and sort three-dimensional shapes such as spheres, cubes and cylinders.	SE/TE: Topic 14 275-276, 277-278 Topic 16 307-308, 309-310, 311-312 TE: Topic 14 275A-276C, 277A-278C Topic 16 307A-308C, 309A-310C, 311A-312C

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M.K.3.5 Interpret the physical world using geometric shapes and describe the relative position of these objects using terms such as above, below, beside, in front of, behind and next to.	SE/TE: Topic 15 287-288, 289-290, 291-292, 293-294 TE: Topic 15 287A-288C, 289A-290C, 291A-292C, 293A-294C
Standard 4 – Algebra And Functions /Data	
M.K.4.1 Decompose numbers less than or equal to 10 into pairs in more than one way by using objects or drawings, and record each decomposition by a drawing or equation ($5 = 2 + 3$ and $5 = 4 + 1$)	SE/TE: Topic 9 169-170, 173-174, 177-178, 181-182 TE: Topic 9 169A-170C, 173A-174C, 177A-178C, 181A-182C
M.K.4.2 Organize, represent and interpret data using pictures and picture graphs.	SE/TE: Topic 9 167, 185-186 Topic 13 255-256, 257-258 TE: Topic 9 167D, 185A-186C Topic 13 255A-256C, 257A-258C
Standard 5 – Measurement	
M.K.5.1 Compare and order objects indirectly or directly using measurable attributes such as length, height and weight.	SE/TE: Topic 12 225-226, 227-228, 229-230, 231-232, 233-234, 235-236, 237-238 TE: Topic 12 224, 225A-226C, 227A-228C, 229A-230C, 231A-232C, 233A-234C, 235A-236C, 237A-238C
M.K.5.2 Demonstrate an understanding of the concept of time, using identifiers such as morning, afternoon, day, week, month, year, before/after, and shorter/longer.	MDIS Lessons: D1, D3, D6, D7

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Standard 1 – Number Sense	
M.1.1.1 Read, write, count and compare whole numbers up to 120.	SE/TE: Topic 1 3-6 Topic 2 77-80 Topic 3 91-94 Topic 4 133-136 Topic 5 179-182 Topic 6 205-208 Topic 7 239-242 Topic 8 269-272, 273-276, 277-280, 281-284, 285-288 Topic 9 303-306 Topic 10 333-336 Topic 11 363-366 TE: Topic 1 3A-6B Topic 2 77A-80B Topic 3 91A-94B Topic 4 133A-136B Topic 5 179A-182B Topic 6 205A-208B Topic 7 239A-242B Topic 8 269A-272B, 273A-276B, 277A-280B, 281A-284B, 285A-288B Topic 9 303A-306B Topic 10 333A-336B Topic 11 363A-366B
M.1.1.2 Separate, group and count objects in ones and tens.	SE/TE: Topic 8 269-272, 273-276, 277-280, 281-284, 285-288, 289-292 TE: Topic 8 269A-272B, 273A-276B, 277A-280B, 281A-284B, 285A-288B, 289A-292B
M.1.1.3 Identify the number of tens and ones in numbers less than 120.	SE/TE: Topic 8 269-272, 273-276, 277-280, 281-284, 285-288, 289-292 TE: Topic 8 269A-272B, 273A-276B, 277A-280B, 281A-284B, 285A-288B, 289A-292B

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M.1.1.4 Identify, name and write the number that is one more than or one less than any number up to 120.	SE/TE: Topic 1 12-13, 16-17 Topic 2 42-43, 47, 50, 58, 62, 67, 70, 74 Topic 4 117-120, 137-140 Topic 7 241 Topic 9 299-302 TE: Topic 4 117A-120B, 137A-140B Topic 9 299A-302B
M.1.1.5 Create and use counting strategies and number patterns to compare whole numbers up to 120 recording the results of comparisons with the symbols < , = and > and arrange them in numerical order.	SE/TE: Topic 9 299-302, 303-306, S07-310, 311-314, 315-318 TE: Topic 9 299A-302B, 303A-306B, S07A-310B, 311A-314B, 315A-318B
M.1.1.6 Solve routines of matching the number names (first, second, third, etc.) with an ordered set of at least 10.	MDIS Lesson: A22
M.1.1.7 Model solving routine and non-routine problems by acting them out, using manipulatives and drawing diagrams.	SE/TE: Topic 1 31-34 Topic 2 81-84 Topic 4 153-156 Topic 6 229-232 Topic 10 345-348 Topic 11 375-378 Topic 16 529-532 TE: Topic 1 31A-34B Topic 2 81A-84B Topic 4 153A-156B Topic 6 229A-232B Topic 10 345A-348B Topic 11 375A-378B Topic 16 529A-532B

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M.1.1.8 Understand and identify the meanings and functions of the equal, plus and minus signs.	<p>SE/TE: Topic 1 19-22, 23-26, 27-30 Topic 2 53-56, 57-60, 61-64, 65-68, 69-72, 73-76, 77-80 Topic 4 153-156 Topic 6 217-220, 221-224, 225-228, 229-232</p> <p>TE: Topic 1 19A-22B, 23A-26B, 27A-30B Topic 2 53A-56B, 57A-60B, 61A-64B, 65A-68B, 69A-72B, 73A-76B, 77A-80B Topic 4 153A-156B Topic 6 217A-220B, 221A-224B, 225A-228B, 229A-232B</p>
Standard 2 – Computation	
M.1.2.1 Model addition situations using concepts of “part to whole”, “adding to”, “compare”, “putting together” and “increase”.	<p>SE: Topic 1 7-10, 11-14, 15-18, 19-22, 23-26, 31-34 Topic 2 41-44, 45-48, 49-52, 53-56, 57-60, 61-64, 65-68, 69-72, 81-84</p> <p>TE: Topic 1 7A-10B, 11A-14B, 15A-18B, 19A-22B, 23A-26B, 31A-34B Topic 2 41A-44B, 45A-48B, 49A-52B, 53A-56B, 57A-60B, 61A-64B, 65A-68B, 69A-72B, 81A-84B</p>
M.1.2.2 Apply properties of operations as strategies to add using commutative properties of addition (i.e. if $8 + 3 = 11$ is known, then $3 + 8 = 11$ is also known), also using associative and additive identity to add whole numbers (i.e. $2 + 6 + 4 = 2 + 10 = 12$).	<p>SE/TE: Topic 1 27-30 Topic 4 117-120 Topic 5 191-194, 195-198 Topic 6 217-220 Topic 10 337-340</p> <p>TE: Topic 1 27A-30B Topic 4 117A-120B Topic 5 191A-194B, 195A-198B Topic 6 217A-220B Topic 10 337A-340B</p>

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M.1.2.3 Use equivalent forms of the same number (up to 20) using objects, diagrams and numbers (i.e. 14 as $8 + 6$, $7 + 7$, $13 + 1$).	<p>SE/TE: Topic 1 7-10, 11-14, 15-18 Topic 2 41-44, 45-48, 49-52 Topic 3 91-94, 95-98, 99-102, 103-106 Topic 4 133-136 Topic 5 179-182, 183-186, 187-190 Topic 6 205-208</p> <p>TE: Topic 1 7A-10B, 11A-14B, 15A-18B Topic 2 41A-44B, 45A-48B, 49A-52B Topic 3 91A-94B, 95A-98B, 99A-102B, 103A-106B Topic 4 133A-136B Topic 5 179A-182B, 183A-186B, 187A-190B Topic 6 205A-208B</p>
M.1.2.4 Use counting strategies, number patterns and the role of zero to solve basic addition and subtraction fact problems.	<p>SE/TE: Topic 4 117-120, 121-124, 125-128, 129-132, 133-136, 137-140, 141-144, 145-148, 149-152 Topic 5 163-166, 167-170, 171-174, 179-182 Topic 6 213-216, 217-220</p> <p>TE: Topic 4 117A-120B, 121A-124B, 125A-128B, 129A-132B, 133A-136B, 137A-140B, 141A-144B, 145A-148B, 149A-152B Topic 5 163A-166B, 167A-170B, 171A-174B, 179A-182CB Topic 6 213A-216B, 217A-220B</p>
M.1.2.5 Model subtraction using the concepts of "taking away", "comparing", "find the difference", "decreasing" and "less than".	<p>SE/TE: Topic 2 57-60, 61-64, 65-68, 69-72, 81-84 Topic 6 229-232 Topic 9 299-302 Topic 11 375-378</p> <p>TE: Topic 2 57A-60B, 61A-64B, 65A-68B, 69A-72B, 81A-84B Topic 6 229A-232B Topic 9 299A-302B Topic 11 375A-378B</p>

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M.1.2.6 Identify mastery of addition and subtraction facts (up to 20).	SE/TE: Topic 4 145-148, 149-152 Topic 5 163-166, 167-170, 171-174, 179-182, 183-186, 187-190, 191-194 Topic 6 205-208, 209-212, 213-216, 217-220, 221-224, 225-228 TE: Topic 4 145A-148B, 149A-152B Topic 5 163A-166B, 167A-170B, 171A-174B, 179A-182B, 183A-186B, 187A-190B, 191A-194B Topic 6 205A-208B, 209A-212B, 213A-216B, 217A-220B, 221A-224B, 225A-228B
M.1.2.7 Model inverse relationship between addition and subtraction facts (i.e. $5 + 2 = 7$, $7 - 2 = 5$).	SE/TE: Topic 2 73-76 Topic 4 141-144, 145-148, 149-152 Topic 6 213-216, 217-220, 221-224 TE: Topic 2 73A-76B Topic 4 141A-144B, 145A-148B, 149A-152B Topic 6 213A-216B, 217A-220B, 221A-224B
M.1.2.8 Compare and order whole numbers at least to 120. Read and write numerals to 120. Represent a written number for a number of objects.	SE/TE: Topic 9 299-302, 303-306, 307-310, 311-314, 315-318 TE: Topic 9 299A-302B, 303A-306B, 307A-310B, 311A-314B, 315A-318B
M.1.2.9 Represent two-digit numbers in terms of tens and ones.	SE/TE: Topic 8 269-272, 273-276, 277-280, 281-284, 285-288, 289-292 TE: Topic 8 269A-272B, 273A-276B, 277A-280B, 281A-284B, 285A-288B, 289A-292B

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M.1.2.10 Use mathematical reasoning and beginning understanding of tens and ones to solve two-digit addition and subtraction problems within 100 and adding a two-digit number and multiple of 10 using concrete models or drawings or strategies based on place value.	SE/TE: Topic 10 325-328, 329-332, 333-336, 337-340, 341-344, 345-348 Topic 11 355-358, 359-362, 363-366, 367-370, 371-374, 375-378 TE: Topic 10 325A-328B, 329A-332B, 333A-336B, 337A-340B, 341A-344B, 345A-348B Topic 11 355A-358B, 359A-362B, 363A-366B, 367A-370B, 371A-374B, 375A-378B
M.1.2.11 Solve routine and non-routine problems by acting them out, using manipulatives and drawing diagrams.	SE/TE: Topic 1 31-34 Topic 2 81-84 Topic 4 153-156 Topic 6 229-232 Topic 10 345-348 Topic 11 375-378 Topic 16 529-532 TE: Topic 1 31A-34B Topic 2 81A-84B Topic 4 153A-156B Topic 6 229A-232B Topic 10 345A-348B Topic 11 375A-378B Topic 16 529A-532B
Standard 3 – Algebra And Functions/Data	
M.1.3.1 Use addition and subtraction within 20 to solve word problems involving unknowns in key positions. Use objects, drawings or equations with a symbol for unknown numbers to represent the problem.	SE/TE: Topic 1 8-10, 11-14, 16-18, 20-21, 23-26, 30, 32-34 Topic 2 42-44, 48, 52, 56, 57-60, 61-64, 65-68, 69-72 TE: Topic 1 11-14B, 16-18B, 20-22B, 23-26B, 30-30A, 32-34B Topic 2 42-44B, 48-48B, 52-52B, 56-56A, 57A-60B, 61A-64B, 65A-68B, 69-72B
M.1.3.2 Solve word problems that involve three whole numbers whose sum is less than or equal to 20.	SE/TE: Topic 5 175-178, 195-198 TE: Topic 5 175A-178B, 195A-198B

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M.1.3.3 Use the meaning of the equal sign to determine if equations involving addition and subtraction are true or false (i.e. $7 = 8 - 1$, $4 + 1 = 5 + 2$).	SE/TE: Topic 2 78-80 Topic 4 119 Topic 5 169, 173 Topic 6 207, 227 TE: Topic 2 78-80, 80B Topic 4 119 Topic 5 169, 173 Topic 6 207, 227
M.1.3.4 Create and extend number patterns using addition and subtraction (i.e. 1, 3, 5 ..., tell the next numbers in the pattern and why, also 10, 7, 4...).	SE/TE: Topic 7 247-250, 251-254, 255-258, 259-262 TE: Topic 7 247A-250B, 251A-254B, 255A-258B, 259A-262B
M.1.3.5 Organize, represent and interpret data with up to three categories using pictures and picture graphs and ask/answer questions about the data.	SE/TE: Topic 14 437-440, 441-444, 445-448, 449-452, 453-456, 457-460, 461-464 TE: Topic 14 437A-440B, 441A-444B, 445A-448B, 449A-452B, 453A-456B, 457A-460B, 461A-464B
Standard 4 – Geometry	
M.1.4.1 Identify, describe, compare, contrast, sort and draw: rectangles, triangles, squares and circles.	SE/TE: Topic 15 471-474, 475-478, 479-482, 483-486, 487-490, 495-498, 507-510 TE: Topic 15 471-474B, 475A-478B, 479A-482B, 483A-486B, 487A-490B, 495-498B, 507A-510B
M.1.4.2 Identify triangles, rectangles, squares and circles as the faces* of three dimensional objects. (*Face – compare to a flat side of a cereal box.)	SE/TE: Topic 15 495-498 TE: Topic 15 495-498B

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M.1.4.3 Identify and sort two-dimensional and three-dimensional objects.	SE/TE: Topic 15 471-474, 475-478, 479-482, 483-486, 487-490, 491-494, 495-498, 499-502, 503-506, 507-510 TE: Topic 15 471-474B, 475A-478B, 479A-482B, 483A-486B, 487A-490B, 491A-494B, 495-498B, 499A-502B, 503A-506B, 507A-510B
M.1.4.4 Identify and name geometric shapes in the environment and specify their location (i.e. school's ballfields, flagpole, cafeteria tray, etc.).	SE/TE: Topic 15 474, 491-494, 502 TE: Topic 15 471, 474, 491A-494B, 495, 502, 507
M.1.4.5 Arrange and describe objects in space by position and direction: near, far, under, over, up, down, in front of, in back of, left of, right of, etc.).	MDIS Lessons: D47, D76
M.1.4.6 Create a map that indicates specific directions for finding familiar landmarks or objects.	MDIS Lessons: D76, D81
M.1.4.7 Use appropriate vocabulary to compare shapes according to attributes and properties, such as number and length of sides and number of vertices.	SE/TE: Topic 15 471-474, 479-482, 491-494, 495-498, 499-502, 507-510 TE: Topic 15 471-474B, 479A-482B, 491A-494B, 495-498B, 499A-502B, 507A-510B
M.1.4.8 Compose and decompose plane and solid figures, including making predictions about them, in order to build an understanding of part-to-whole relationship and properties of shapes.	SE/TE: Topic 15 475-478, 483-486, 487-490, 503-506 TE: Topic 15 475A-478B, 482B, 483A-486B, 487A-490B, 503A-506B
Standard 5 – Measurement	
M.1.5.1 Compare/contrast different units of measurement (inch, pound, ounce, foot, etc.).	MDIS Lessons: D22, D23, D24, D26, D29, D33, D34, D39, D40, D41, D42, D43

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M.1.5.2 Compare/contrast the length/width of different objects to make predictions of greater than, less than or equal to.	SE/TE: Topic 12 385-388, 389-392 TE: Topic 12 385A-388B, 389A-392B
M.1.5.3 Measure and estimate the length of an object to the nearest inch.	MDIS Lessons: D23, D24, D25
M.1.5.4 Order three objects by length; compare the lengths of two objects indirectly by using a third object.	SE/TE: Topic 12 385-388, 389-392 TE: Topic 12 385A-388B, 389A-392B
M.1.5.5 Compare and order objects according area, capacity, weight and temperature, using direct comparison or a non-standard unit.	MDIS Lessons: D11, D18, D19, D20, D21
M.1.5.6 Tell time and write in hours and half-hours, using analog and digital clocks.	SE/TE: Topic 13 415-418, 419-422, 423-426, 427-430 TE: Topic 13 415A-418B, 419A-422B, 423A-426B, 427A-430B
M.1.5.7 Identify by site and value the following coins: pennies, nickels, dimes and quarters.	MDIS Lessons: A54, A55, A56, A57, A58, A59, A60, A61, A62

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Standard 6 – Problem Solving	
M.1.6.1 Use addition and subtraction to solve word and numerical problems involving: taking away, putting together and taking apart.	SE/TE: Topic 1 8-10, 11-14, 16-18, 20-21, 23-26, 30, 32-34 Topic 2 42-44, 48, 52, 56, 57-60, 61-64, 65-68, 69-72 TE: Topic 1 11-14B, 16-18B, 20-22B, 23-26B, 30-30A, 32-34B Topic 2 42-44B, 48-48B, 52-52B, 56-56A, 57A-60B, 61A-64B, 65A-68B, 69-72B
M.1.6.2 Solve word problems for addition of three or four whole numbers whose sum is less than 100.	SE/TE: Topic 5 175-178, 195-198 TE: Topic 5 175A-178B, 195A-198B
M.1.6.3 Use appropriate vocabulary to describe shapes and attributes of properties, such as: numbers, lengths of sides and number of vertices.	SE/TE: Topic 15 471-474, 479-482, 491-494, 495-498, 499-502, 507-510 TE: Topic 15 471-474B, 479A-482B, 491A-494B, 495-498B, 499A-502B, 507A-510B
M.1.6.4 Use mathematical reasoning and basic understanding of tens and ones to solve problems for two-digit addition and subtractions.	SE/TE: Topic 10 325-328, 329-332, 333-336, 337-340, 341-344, 345-348 Topic 11 355-358, 359-362, 363-366, 367-370, 371-374, 375-378 TE: Topic 10 325A-328B, 329A-332B, 333A-336B, 337A-340B, 341A-344B, 345A-348B Topic 11 355A-358B, 359A-362B, 363A-366B, 367A-370B, 371A-374B, 375A-378B
M.1.6.5 Extend repeating and extending patterns, fill in missing terms and justify reasoning	SE/TE: Topic 7 247-250, 251-254, 255-258, 259-262 TE: Topic 7 247A-250B, 251A-254B, 255A-258B, 259A-262B

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Standard 1 - Number Sense	
M.2.1.1 Extend and identify number patterns to build a foundation for understanding multiples and factors (i.e. skip counting by 2s, 5s, 10s and 100s).	SE/TE: Topic 4 101-104, 105-108, 109-112, 113-116 Topic 6 159, 175, 177-180 Topic 10 313-316, 317-320, 329-332 Topic 11 360-361 TE: Topic 4 101-104B, 105A-108B, 109-112B, 113A-116B Topic 6 160B, 175, 177A-180B Topic 10 313A-316B, 317A-320B, 329-332B Topic 11 360-361
M.2.1.2 Classify number as odd or even up to 100.	SE/TE: Topic 11 372-373 TE: Topic 11 372-373, 374A-374B MDIS Lesson: A17
M.2.1.3 Identify relationship between the digits and their place value through the thousands, including counting by tens and hundreds and read/write numbers to 1000 using base ten numerals, number names and expanded form.	SE/TE: Topic 5 123-126, 127-130, 131-134, 135-138, 139-142 Topic 10 297-300, 301-304, 305-308, 309-312, 313-316, 317-320 Topic 11 339-342, 343-346, 347-350, 351-154 TE: Topic 5 123A-126B, 127A-130B, 131A-134B, 135A-138B, 139A-142B Topic 10 297A-300B, 301A-304B, 305A-308B, 309A-312B, 313A-316B, 317A-320B Topic 11 339A-342B, 343A-346B, 347A-350B, 351A-154B
M.2.1.4 Compare and order multi-digit numbers through the thousands using $<$, $=$ and $>$ symbols to record the results of comparisons.	SE/TE: Topic 5 131-134 Topic 10 321-324, 325-328, 329-332 Topic 11 371-374 TE: Topic 5 131A, 134A-134B Topic 10 321A-324B, 325A-328B, 329A-332B Topic 11 371A-374B

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M.2.1.5 Identify fractions as parts of a whole or parts of a group (up to 12 parts).	SE/TE: Topic 12 405-408 TE: Topic 12 405A-405B MDIS Lessons: A34, A35, A36, A37, A38, A39, A40, A41, A42, A43, A44, A45, A46, A47, A48, A49, A50, A51, A52, A53
M.2.1.6 Recognize, name and compare the unit fractions ($\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, etc.) and know that when all fractional parts are included, the result is equal to the whole and to one.	MDIS Lessons: A38, A39, A41, A47, A50, A51
Standard 2 – Computation And Basic Facts	
M.2.2.1 Recall basic addition and related subtraction facts.	SE/TE: Topic 1 3-6, 11-14, 23-26 Topic 2 37-40, 41-44, 45-48, 49-52, 53-56, 57-60, 61-64 Topic 3 71-74, 75-78, 79-82, 83-86, 87-90 TE: Topic 1 3A-6B, 11A-14B, 23A-26B Topic 2 37A-40B, 41A-44B, 45A-48B, 49A-52B, 53A-56B, 57A-60B, 61A-64B Topic 3 71A-74B, 75A-78B, 79A-82B, 83A-86B, 87A-90B
M.2.2.2 Solve addition and subtraction problems without regrouping with whole numbers within 100.	SE/TE: Topic 6 157-160, 161-164, 165-168, 169-172, 173-176 Topic 7 187-190, 191-194, 195-198, 199-202 TE: Topic 6 157A-160B, 161A-164B, 165A-168B, 169A-172B, 173A-176B Topic 7 187A-190B, 191A-194B, 195A-198B, 199A-202B

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M.2.2.3 Fluently add and subtract within 20, using mental strategies.	<p>SE/TE: Topic 1 3-6, 11-14, 23-26 Topic 2 37-40, 41-44, 45-48, 49-52, 53-56, 57-60, 61-64 Topic 3 71-74, 75-78, 79-82, 83-86, 87-90</p> <p>TE: Topic 1 3A-6B, 11A-14B, 23A-26B Topic 2 37A-40B, 41A-44B, 45A-48B, 49A-52B, 53A-56B, 57A-60B, 61A-64B Topic 3 71A-74B, 75A-78B, 79A-82B, 83A-86B, 87A-90B</p>
M.2.2.4 Understand that the three digits of a three-digit number represents amount of hundreds, tens and ones (i.e. 816 equals 8 hundreds, 1 ten and 6 ones).	<p>SE/TE: Topic 10 297-300, 301-304, 305-308, 309-312, 313-316, 317-320, 321-324, 325-328 Topic 11 339-342, 343-346, 347-350, 351-154, 363-366, 367-370</p> <p>TE: Topic 10 297A-300B, 301A-304B, 305A-308B, 309A-312B, 313A-316B, 317A-320B, 321A-324B, 325A-328B Topic 11 339A-342B, 343A-346B, 347A-350B, 351A-154B, 363A-366B, 367A-370B</p>
M.2.2.5 Fluently add and subtract within 100 using strategies based on place value, properties of operations and/or the relationship between addition and subtraction.	<p>SE/TE: Topic 6 165-168, 169-172, 173-176 Topic 7 191-194, 195-198, 199-202 Topic 8 225-228, 229-232, 233-236, 237-240, 241-244 Topic 9 267-270, 271-274, 279-282, 283-286</p> <p>TE: Topic 6 165A-168B, 169A-172B, 173A-176B Topic 7 191A-194B, 195A-198B, 199A-202B Topic 8 225A-228B, 229A-232B, 233A-236B, 237A-240B, 241A-244B Topic 9 267A-270B, 271A-274B, 279A-282B, 283A-286B</p>

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M.2.2.6 Use the inverse relationship between addition and subtraction (i.e. $65 - 13 = 52$ means that $52 + 13 = 65$).	SE/TE: Topic 1 23-26 Topic 3 75-78, 79-82, 83-86 Topic 9 279-282 TE: Topic 1 23A-26B Topic 3 75A-78B, 79A-82B, 83A-86B Topic 9 279A-282B
M.2.2.7 Use mental math to add or subtract 0, 1, 2, 3, 4, 5 or 10 with numbers less than 100 and add or subtract 100 to a given number 100-900.	SE/TE: Topic 1 3-6, 11-14, 23-26 Topic 2 37-40, 41-44, 45-48, 49-52, 53-56, 57-60 Topic 3 71-74, 75-78, 79-82, 87-90 Topic 5 139-142 Topic 10 309-312 TE: Topic 1 3A-6B, 11A-14B, 23A-26B Topic 2 37A-40B, 41A-44B, 45A-48B, 49A-52B, 53A-56B, 57A-60B Topic 3 71A-74B, 75A-78B, 79A-82B, 87A-90B Topic 5 139A-142B Topic 10 309A-309B
M.2.2.8 Estimate solutions to multi-digit addition and subtraction problems through three digits.	SE/TE: Topic 14 453-456 TE: Topic 14 453-456B MDIS Lessons: C5, C18, C30, C31
M.2.2.9 Add and subtract multi-digit whole numbers through three digits with fluency by using a variety of strategies.	SE/TE: Topic 6 165-168, 169-172 Topic 7 195-198, 199-202 Topic 8 225-228, 229-232, 233-236, 237-240, 241-244 Topic 9 267-270, 271-274, 279-282, 283-286 Topic 11 351-354, 367-370 TE: Topic 6 165A-168B, 169A-172B Topic 7 195A-198B, 199A-202B Topic 8 225A-228B, 229A-232B, 233A-236B, 237A-240B, 241A-244B Topic 9 267A-270B, 271A-274B, 279A-282B, 283A-286B Topic 11 351A-354B, 367A-370B

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M.2.2.10 Estimate solutions to multi-digit addition and subtraction problems through three digits.	SE/TE: Topic 14 453-456 TE: Topic 14 453-456B MDIS Lessons: C5, C18, C30, C31
M.2.2.11 Use addition to find the total number of objects arranged in rectangular arrays with up to 5 rows and up to 5 columns; write an equation to express the total as a sum of equal addends.	SE/TE: Topic 4 105-108, 110, 112, 116 TE: Topic 4 105A-108B, 110, 112-112B, 116-116A
Standard 3 – Algebra And Functions/Data	
M.2.3.1 Solve problem situations to number sentences involving addition and subtraction (i.e. Joe has 10 pencils, Mary has 5 pencils and you have 6 pencils. How many pencils are there altogether?)	SE/TE: Topic 1 3-6, 7-10, 11-14, 15-18, 19-22, 27-30 Topic 2 40, 44, 48, 52, 61-64 Topic 3 91-94 Topic 4 113-116 Topic 7 194 Topic 8 245-247 TE: Topic 1 3A-6B, 7A-10B, 11A-14B, 15A-18B, 19A-22B, 27A-30B Topic 2 40, 44, 48, 52, 61A-64B Topic 3 91A-94B Topic 4 113A-116B Topic 7 194 Topic 8 248A-248B
M.2.3.2 Use the commutative and associative properties for addition to simplify mental calculations (i.e. Add the numbers 6, 12 and 14 in this order. Now add them in the order of 14, 6 and 12. Which was easier? Why?).	SE/TE: Topic 2 49-52, 53-56, 57-60 TE: Topic 2 49A-52B, 53A-56B, 57A-60B

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M.2.3.3 Create, describe and extend number patterns using addition and subtraction (i.e. What are the next 3 numbers: 20, 18, 16, 14, ...?).	SE/TE: Topic 6 159, 175, 177-180 Topic 10 313-316, 317-320, 329-332 Topic 11 360-361 TE: Topic 4 101-104B, 105A-108B, 109-112B, 113A-116B Topic 6 160B, 175, 177A-180B Topic 10 313A-316B, 317A-320B, 329-332B Topic 11 360-361
M.2.3.4 Generalize numeric and non-numeric patterns using words and tables, tally charts and bar graphs.	SE/TE: Topic 4 101-104, 105-108, 109-112, 113-116 Topic 6 159, 175, 177-180 Topic 10 313-316, 317-320, 329-332 Topic 11 360-361 Topic 12 402-404 Topic 16 517-520 TE: Topic 4 101-104B, 105A-108B, 109-112B, 113A-116B Topic 6 160B, 175, 177A-180B Topic 10 313A-316B, 317A-320B, 329-332B Topic 11 360-361 Topic 12 401-404, 404B Topic 16 517A-520B
M.2.3.5 Collect and record numerical data with up to four categories in systematic ways including a line plot, picture graph and a bar graph.	SE/TE: Topic 16 517-520, 521-524, 525-528, 529-532 TE: Topic 16 517A-520B, 521A-524B, 525A-528B, 529A-532B
Standard 4 – Geometry	
M.2.4.1 Solve addition and subtraction problems that involve measurement and geometry.	SE/TE: Topic 12 401-404 Topic 15 491-494, 495-498 TE: Topic 12 401A-404B Topic 15 491A-494B, 495A-498B

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M.2.4.2 Use geometric models to demonstrate the relationships between wholes and their parts as a foundation to fractions.	SE/TE: Topic 12 401-404, 405-408 TE: Topic 12 401A-404B, 405A-408B
M.2.4.3 Generalize and predict numeric and non-numeric patterns using words and tables (i.e. Partition a rectangle into rows and columns of same size squares and count to find the total number.).	SE/TE: Topic 4 101-104, 105-108, 109-112, 113-116 Topic 6 175, 177-180 Topic 10 313-316 Topic 12 402-404 TE: Topic 4 101-104B, 105A-108B, 109-112B, 113A-116B Topic 6 160B, 175, 177A-180B Topic 10 313A-316B Topic 12 401-404, 404B
M.2.4.4 Identify congruent two-dimensional shapes in any position.	MDIS Lessons: D54, D66
Standard 5 – Measurement	
M.2.5.1 Estimate and use standard units, including inches and centimeters to partition and measure lengths of objects.	SE/TE: Topic 15 467-470, 471-474, 475-478, 479-482, 483-486, 487-490, 491-494, 495-498, 499-502 TE: Topic 15 467A-470B, 471A-474B, 475A-478B, 479A-482B, 483A-486B, 487A-490B, 491A-494B, 495A-498B, 499A-502B
M.2.5.2 Describe the inverse relationship between the size of a unit and the number of units needs to measure a given object and which unit is most appropriate in a given situation.	SE/TE: Topic 15 487-490 TE: Topic 15 487A-490B MDIS Lesson: D22
M.2.5.3 Solve addition and subtraction problems that involve measurement.	SE/TE: Topic 15 491-494, 495-498 TE: Topic 15 491A-194B, 495A-498B

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M.2.5.4 Estimate and select an appropriate tool to measure, weigh and/or compare lengths to solve.	SE/TE: Topic 15 467-470, 471-474, 475-478, 479-482, 483-486, 487-490, 491-494, 495-498, 499-502 TE: Topic 15 467A-470B, 471A-474B, 475A-478B, 479A-482B, 483A-486B, 487A-490B, 491A-494B, 495A-498B, 499A-502B
M.2.5.5 Apply the transitive property when comparing lengths of objects.	MDIS Lesson: D18
M.2.5.6 Estimate temperature. Read a thermometer in Celsius and Fahrenheit.	MDIS Lesson: D11, D12, D17
M.2.5.7 Identify time to the nearest quarter hour from analog and digital clocks. Tell and write time to the nearest five-minute intervals and explain the difference between A.M. and P.M.	SE/TE: Topic 16 509-512, 513-516 TE: Topic 16 509A-512B, 513A-516B
M.2.5.8 Identify and know the relationship of time: second to minute, minutes to hour, hours to day, days to week, weeks to month, months to year.	SE/TE: Topic 16 509-512, 513-516 TE: Topic 16 509A-512B, 513A-516B MDIS Lesson: D15
M.2.5.9 Identify, combine and compare values of money in cents up to \$100, working with a single unit of currency.	SE/TE: Topic 13 419-422, 423-426, 427-430, 431-434, 435-438 Topic 14 445-448, 449-452, 453-456, 457-460 TE: Topic 13 419A-422B, 423A-426B, 427A-430B, 431A-434B, 435A-438B Topic 14 445A-448B, 449A-452B, 453A-456B, 457A-460B

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Standard 6 – Problem Solving	
M.2.6.1 Solve word problems that involve repeated addition, subtraction and basic multiplication.	SE/TE: Topic 4 101-104, 108, 109-112, 113-116 TE: Topic 4 101A-104B, 108-108B, 109A-112B, 113A-116B
M.2.6.2 Solve problems using geometric models to demonstrate the relationship between wholes and their parts as a foundation to fractions.	SE/TE: Topic 12 401-404, 405-408 TE: Topic 12 401A-404B, 405A-408B
M.2.6.3 Solve problems that represent fractions, including fractions great than one, using area, set and linear models.	SE/TE: Topic 12 405-408 TE: Topic 12 405A-408B MDIS Lessons: A34, A35, A36, A38, A41, A42, A43, A46, A50
M.2.6.4 Solve problems using geometric models to demonstrate the relationships between wholes and their parts as a foundation to fractions.	SE/TE: Topic 12 401-404, 405-408 TE: Topic 12 401A-404B, 405A-408B
M.2.6.5 Represent, compute, estimate and solve one and two step problems using numbers through hundred-thousands.	SE/TE: Topic 1 3-6, 7-10, 11-14, 15-18, 19-22, 23-26, 27-30 Topic 2 40, 44, 48, 52, 61-64 Topic 4 113-116 Topic 7 191 Topic 8 245 TE: Topic 1 3A-6B, 7A-10B, 11A-14B, 15A-18B, 19A-22B, 23A-26B, 27A-30B Topic 2 40, 44, 48, 52, 61A-64B Topic 4 113A-116B Topic 7 191 Topic 8 248A

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Standard 1 - Number Sense	
M.3.1.1 Represent, compute, estimate and solve problems using numbers through hundred-thousands.	SE/TE: Topic 1 6-7, 8-9, 10-11, 12-13, 14-15, 16-18, 20-21, 22-23 Topic 2 32-33, 34-35, 36-38, 40-41 Topic 3 66-67, 68-70, 71 TE: Topic 1 6A-7B, 8A-9B, 10A-11B, 12A-13B, 14A-15B, 16A-18, 19A-19B, 20A-21B, 22A-23B Topic 2 32A-33B, 34A-35B, 36A-38, 39A-39B, 40A-41B, 54A Topic 3 66A-67B, 68A-70, 71, 71A-71B
M.3.1.2 Round number less than 1,000 to the nearest ten and the nearest hundred.	SE/TE: Topic 2 42-44, 46-48, 50-52, 57 TE: Topic 2 42A-44, 45A-45B, 46A-48, 49A-49B, 50A-52, 53A-53B, 57
M.3.1.3 Identify any numbers up to 1,000 in various combinations of hundreds, tens and ones.	SE/TE: Topic 1 6-7, 8-9, 10-11, 16-17, 21, 22-23 Topic 2 39 Topic 3 66-67, 68-70, 71 TE: Topic 1 6A-7B, 8A-9B, 10A-11B, 16A-17, 19B, 20B, 21, 21A-21B, 22B-23B Topic 2 39 Topic 3 66A-67B, 68A-70, 71, 71A-71B, 72B, 73B, 74B
M.3.1.4 Identify and use correctly the names for numerators and denominators.	SE/TE: Topic 9 224-225, 226-227, 228-229, 234-235 Topic 10 246-247, 248-249, 250-251, 252-253, 254-256, 258-259, 262-263 TE: Topic 9 224A-225B, 226B-227A, 228A-229B, 230A-230B, 231A-231B, 234B, 235A Topic 10 246A-247B, 248A-249B, 250A-251B, 252A, 254B-256, 257A-257B

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M.3.1.5 Show equivalent fractions using equal parts (i.e. 3/5, 6/10, 9/15) as equivalent fractions.	SE/TE: Topic 10 250, 254-255, 256, 257, 258-259, 260-261, 263 TE: Topic 10 250, 251B, 254A-255, 257A-257B, 258A-259B, 260A-261B, 262A-262B, 263, 263B
M.3.1.6 Describe how the size of the fractional part is related to the number of equal sized pieces in the whole.	SE/TE: Topic 10 246-247, 248-249, 250-251, 252-253 TE: Topic 10 246A-247B, 248A-249B, 250A-251B, 252A-253B
M.3.1.7 Compare and order fractions, including fractions greater than one, using models and strategies.	SE/TE: Topic 10 246-247, 248-249, 250-251, 252-253, 254-256, 258-259, 260-261, 262-263 TE: Topic 10 246A-247B, 248A-249B, 250A-251B, 252A-253B, 254A-256, 257A-257B, 258A-259B, 260A-261B, 262A-263B
M.3.1.8 Using models, charts and graphs to represent equivalent fractions greater than one and identify representation of equivalence.	SE/TE: Topic 10 260-261 TE: Topic 10 260A-261B MDIS Lessons: H18
M.3.1.9 Given a set of objects or a picture, name and write a decimal to represent tenths and hundredths.	Step-Up Lesson 10 430-431 MDIS Lessons: H10, H13, H22, H23, H24, H25, H26, H27, H28, H29, H30, H31, H32, H33, H34, H35
M.3.1.10 Given a decimal for tenths, show it as a fraction using a place-value model (i.e. Color the part of a circle that represents 0.4 and write the fraction 4/10.).	Step Up to Grade 4: Lesson 10 430-431 MDIS Lessons: H10, H30, H31, H32, H34

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Standard 2 – Computation	
M.3.2.1 Add and subtract whole up to 1,000 with or without regrouping, using relevant properties of the number system (i.e. $637 + 133 = 800 - 30 = ?$, explain your method).	SE/TE: Topic 2 32-33, 34-35, 36-38, 39, 40-41 Topic 3 66-67, 68-70, 71, 72-73, 74-75, 76-77, 78-79, 80-81, 82-84, 86-87 TE: Topic 2 32A-33B, 34A-35B, 36A-38, 39, 39A-39B, 40A-41B, 54A-55B Topic 3 66A-67B, 68A-70, 71A-71B, 72A-73B, 74A-75B, 76A-77B, 78A-79B, 80A-81B, 82A-84, 85A-85B, 86A-87B
M.3.2.2 Model the concept of multiplication as repeated addition.	SE/TE: Topic 4 100-101 TE: Topic 4 100A-101B, 102, 107 MDIS Lesson: G21
M.3.2.3 Show mastery of multiplication facts from memory all products of two one digit numbers.	SE/TE: Topic 4 100-101, 102-103, 104-105 Topic 5 118-120, 122-123, 124-125, 126-127, 128-129, 130-131 Topic 6 142-143, 144-145, 146-147, 148-150, 152-153, 156-157 TE: Topic 4 100A-101B, 102A-103B, 104A-105B Topic 5 118A-120, 121A-121B, 122A-123B, 124A-125B, 126A-127B, 128A-129B, 130A-131B Topic 6 142A-143B, 144A-145B, 146A-147B, 148A-150, 151A-151B, 152A-153B, 156A-157B
M.3.2.4 Model the concept of division as repeated subtraction, equal sharing and forming equal groups and understand division as an unknown factor problem. (i.e. find 32 divided by 8 by finding the number that makes 32 when multiplied by 8.)	SE/TE: Topic 7 172-173, 174-175, 176-177, 178-179, 180-181 Topic 8 192-193, 194-196, 198-199, 200-201, 202-203, 204-205, 206-207, 208-209 TE: Topic 7 172A-173B, 174A-175B, 176A-177B, 178A-179B, 180A-181B Topic 8 192A-193B, 194A-196, 197A-197B, 198A-199B, 200A-201B, 202A-203B, 204A-205B, 206A-207B, 208A-209

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M.3.2.5 Solve multiplication and division within 100, including problems presented in context: repeated addition, multiplicative comparison, how many combinations measurement and partitioning.	SE/TE: Topic 4 100-101, 102-103, 104-105 Topic 5 118-120, 121, 122-123, 124-125 Topic 6 142-143, 144-145, 146-147 Topic 7 172-173, 174-175 Topic 8 192-193, 194-195, 198-199 TE: Topic 4 100A-101B, 102A-103B, 104A-105B Topic 5 118A-120, 121A-121B, 122A-123B, 124A-125B Topic 6 142A-143B, 144A-145B, 146A-147B Topic 7 172A-173B, 174A-175B Topic 8 192A-193B, 194A-195B, 198A-199B
M.3.2.6 Solve multiplication and division fact problems and multiply one-digit whole numbers by multiples of 10 in the range 10-90 by using strategies that result from applying number properties.	SE/TE: Topic 4 100-101, 102-103, 104-105 Topic 5 118-120, 121, 122-123, 124-125 Topic 6 142-143, 144-145, 146-147 Topic 7 172-173, 174-175 Topic 8 192-193, 194-195, 198-199 TE: Topic 4 100A-101B, 102A-103B, 104A-105B Topic 5 118A-120, 121A-121B, 122A-123B, 124A-125B Topic 6 142A-143B, 144A-145B, 146A-147B Topic 7 172A-173B, 174A-175B Topic 8 192A-193B, 194A-195B, 198A-199B
M.3.2.7 Identify, describe and apply division and multiplication as inverse operations (i.e. $5 \times 2 = 10$, $10 \div 5 = 2$, $2 \times 5 = 10$, $10 \div 2 = 5$).	SE/TE: Topic 7 176-177 Topic 8 192-193, 194-196, 198-199, 200-201, 206-207, 208-209 TE: Topic 7 176A-177B Topic 8 192A-193B, 194A-196, 197A-197B, 198A-199B, 200A-201B, 206A-207B, 208A-209B
M.3.2.8 Add and subtract simple fractions with the same denominator.	Step-Up Lesson 8 426-427 MDIS Lessons: H36, H37, H38, H39
M.3.2.9 Use estimation to decide whether answers are reasonable to addition and subtraction problems.	SE/TE: Topic 2 42-44, 46-48, 50-52, 57 TE: Topic 2 42A-44, 45A-45B, 46A-48, 49A-49B, 50A-52, 53A-53B, 57

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M.3.2.10 Use mental math fluently to add or subtract with numbers less than 100.	SE/TE: Topic 2 32-33, 34-35, 36-38, 39, 40-41 TE: Topic 2 32A-33B, 34A-35B, 36A-38, 39, 39A-39B, 40A-41B
Standard 3 – Algebra And Functions, Data Analysis	
M.3.3.1 Construct and analyze frequency tables, scaled bar graphs, pictographs and line plots from a data set with several categories.	SE/TE: Topic 16 392-393, 394-395, 396-398, 399, 400-401, 402-403, 404-405 TE: Topic 16 392A-393B, 394A-395B, 396A-398, 399, 399A-399B, 400A-401B, 402A-403B, 404A-405B
M.3.3.2 Solve non-routine problems by making tables, charts or graphs.	SE/TE: Topic 1 22-23 Topic 9 236-237 Topic 16 392-393, 394-395, 396-398, 399, 400-401, 402-403, 404-405 TE: Topic 1 22A-23B Topic 9 236A-237B Topic 16 392B-393B, 394B-395B, 396B-398, 399, 399A-399B, 400B-401B, 402B-403B, 404A-405B
M.3.3.3 Choose appropriate symbols for operations to make a number sentence true.	SE/TE: Topic 3 88-90 Topic 6 151 Topic 7 178-179 Topic 8 197, 204-205, 210-212, 213 TE: Topic 3 88A-90, 91A-91B Topic 6 151 Topic 7 178A-179B Topic 8 197, 204A-205B, 210-212, 213, 213A-213B
M.3.3.4 Solve simple word problems involving a functional relationship between two quantities (i.e. If a candy bar costs 75¢, find the costs of 1, 2, 3 or 4 bars.).	SE/TE: Topic 4 108-109 Topic 9 236-237 TE: Topic 4 100A, 108B-109B Topic 9 236B-237B

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M.3.3.5 Create, describe and extend number patterns, using multiplication (i.e. 3, 9, 27 ...).	SE/TE: Topic 1 14-15, 18-19 Topic 4 108-109 Topic 5 118, 122-123, 126-127, 128-129 Topic 6 156-157 Topic 9 236-237 Topic 14 353 TE: Topic 1 14A-15B, 18-19 Topic 4 102A, 103B, 108A, 108-109B Topic 5 118A-118B, 121B, 122A-123B, 126A-127B, 128-129A Topic 6 143B, 156B-157B Topic 9 236B-237B Topic 14 353
Standard 4 – Geometry	
M.3.4.1 Identify, describe and classify: cube, sphere, prism, pyramid, cone and cylinder.	MDIS Lessons: I1, I2, I10, I11
M.3.4.2 Describe analyze: compare and classify two-dimensional shapes using sides and angles, including acute, obtuse and right angles and connect these ideas to the definition of shapes.	SE/TE: Topic 11 278-279, 280-282, 284-285, 286-287, 288-289, 290-291 TE: Topic 11 278A-279B, 280A-282, 283A-283B, 284A-285B, 286A-287B, 288A-289B, 290A-291B
M.3.4.3 Build, draw and analyze two-dimensional shapes from several orientations in order to examine and understand congruency and symmetry.	MDIS Lessons: I8, I9, I13, I15
M.3.4.4 Compose, decompose and transform polygons to make other polygons, including concave and convex polygons with three, four, five, six, eight or ten sides.	SE/TE: Topic 11 288-289, 290-291 TE: Topic 11 288A-289B, 290A-291B MDIS Lesson: I16
M.3.4.5 Create, analyze and represent patterns and relationships using words (point, line, line segment, symmetry, angles, right angles, area, perimeter).	SE/TE: Topic 11 280, 282, 292-293 Topic 14 341, 347 TE: Topic 11 280, 282, 283A, 292B-293B Topic 13 327B Topic 14 341, 347, 349B, 352B Topic 15 383B

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M.3.4.6 Solve non-routine problems by making a table, chart or list and searching for patterns.	SE/TE: Topic 1 22-23 Topic 9 236-237 Topic 11 292-293 Topic 16 404-405 TE: Topic 1 22A-23B Topic 9 236A-237B Topic 11 292A-293B Topic 16 404A-405B
M.3.4.7 Describe and determine area as the number of same-sized units that cover a region in a plane, recognizing that unit square is the standard unit for measuring area.	SE/TE: Topic 14 342-343, 344-345, 346-347, 348-349, 350-351, 352-353, 354-356, 358-359, 360-361, 362-363 TE: Topic 14 342A-343B, 344A-345B, 346A-347B, 348A-349B, 350A-351B, 352A-353B, 354A-356, 357A-357B, 358A-359B, 360A-361B, 362A-363
M.3.4.8 Justify the formula for the area of the rectangle, "area = base x height".	SE/TE: Topic 14 348-349 TE: Topic 14 348A-349B
Standard 5 – Measurement	
M.3.5.1 Measure objects using fractional parts of linear units, such as $\frac{1}{2}$, $\frac{1}{4}$, and $\frac{1}{10}$.	SE/TE: Topic 16 394-395 TE: Topic 16 394B-395B
M.3.5.2 Estimate or find the area of geometric shapes by using a "unit square" and relate area to the operations of multiplication and addition. (i.e. polygons, pyramid, square).	SE/TE: Topic 14 342-343, 344-345, 346-347, 348-349, 350-351, 352-353, 354-356, 358-359, 360-361, 362-363 TE: Topic 14 342A-343B, 344A-345B, 346A-347B, 348A-349B, 350A-351B, 352A-353B, 354A-356, 357A-357B, 358A-359B, 360A-361B, 362A-363B

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M.3.5.3 Select appropriate units, strategies and tools to solve problems involving perimeter.	SE/TE: Topic 13 324-325, 326-327, 328-329, 330-331, 332-333 TE: Topic 13 324A-325B, 326A-327B, 328A-329B, 330A-331B, 332A-333B
M.3.5.4 Tell time to the nearest minute and to the nearest quarter hour and determine the amount of time elapsed.	SE/TE: Topic 12 304-306, 308-309, 310-311, 312-313, 314-315 TE: Topic 12 304A-306, 307A-307B, 308A-309B, 310A-311B, 312A-313B, 314A-315B
M.3.5.5 Estimate and measure capacity using quarts, gallons and liters and measure weights using pounds and kilograms.	SE/TE: Topic 15 374-375, 376-377, 378-379, 380-381, 382-383 TE: Topic 15 374A-375B, 376A-377B, 378A-379B, 380A-381B, 382A-383B
M.3.5.6 Tell and compare temperatures in Celsius and Fahrenheit.	MDIS Lessons: D11, D12, D17
M.3.5.7 Find the value of any collection of coins and bills. Use symbols for cents (¢) and dollar (\$) for problem-solving.	SE/TE: Topic 8 196 TE: Topic 1 23B Topic 2 42A Topic 4 106A Topic 8 196 MDIS Lessons: A54, A55, A56, A57, A58, A59, A60, A61, A62, A63
Standard 6 – Problem Solving	
M.3.6.1 Solve two-step word problems using the four operations, using equations with a letter standing for the unknown quantity.	SE/TE: Topic 5 132-133 Topic 6 160-162 Topic 8 202-203 TE: Topic 5 132A-133B Topic 6 160A-162, 163A-163B Topic 8 202A-203B

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M.3.6.2 Identify mathematical patterns for addition and multiplication tables and explain them, using properties of operations (i.e. 2 times a number is always even, zero times a number is always zero.).	<p>SE/TE: Topic 1 14-15, 18-19 Topic 2 32-33 Topic 4 104-105, 108-109 Topic 5 118, 122-123, 126-127, 128-129 Topic 6 156-157 Topic 9 236-237 Topic 14 353</p> <p>TE: Topic 1 14A-15B, 18-19 Topic 2 32B-33B Topic 4 102A, 103B, 104A-105B, 108A, 108-109B Topic 5 118A-118B, 121B, 122A-123B, 126A-127B, 128-129A Topic 6 143B, 156B-157B Topic 9 236B-237B Topic 14 353</p>
M.3.6.3 Solve problems involving measurement and estimation of intervals of time, liquid volumes and masses of objects.	<p>SE/TE: Topic 12 304-306, 308-309, 310-311, 312-313, 314-315 Topic 15 374-375, 376-377, 378-379, 380-381, 382-383</p> <p>TE: Topic 12 304A-306, 307A-307B, 308A-309B, 310A-311B, 312A-313B, 314A-315B Topic 15 374A-375B, 376A-377B, 378A-379B, 380A-381B, 382A-383B</p>
M.3.6.4 Solve and demonstrate knowledge of various models for multiplication in problem-solving situations and demonstrate recall of basic multiplication and related division facts with ease.	<p>SE/TE: Topic 4 100-101, 102-103, 104-105 Topic 5 118-120, 121, 122-123, 124-125 Topic 6 142-143, 144-145, 146-147 Topic 7 172-173, 174-175 Topic 8 192-193, 194-195, 198-199</p> <p>TE: Topic 4 100A-101B, 102A-103B, 104A-105B Topic 5 118A-120, 121A-121B, 122A-123B, 124A-125B Topic 6 142A-143B, 144A-145B, 146A-147B Topic 7 172A-173B, 174A-175B Topic 8 192A-193B, 194A-195B, 198A-199B</p>

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Standard 1 – Basic Facts And Algebraic Thinking	
M.4.1.1 Use and describe various models for multiplication in problem-solving situations and demonstrate recall of basic multiplication and related division facts with ease.	SE/TE: Topic 1 6-8, 10-11, 12-13, 14-17, 18-19, 20-22, 23, 24-25, 26-27, 28-29, 30-31 Topic 6 143, 144-146, 147 TE: Topic 1 6A-8, 9A-9B, 10A-11B, 12A-13B, 14A-17B, 18A-19B, 20A-22, 23, 23A-23B, 24A-25B, 26A-27B, 28A-29B, 30A-31B Topic 6 142B, 143, 143A, 144B-146, 147
M.4.1.2 Generate algebraic rules and use all four operations to describe patterns, including non-numeric growing or repeating patterns.	SE/TE: Topic 1 18-19 Topic 2 40-41, 42-43, 44-45, 46-49, 50-53, 54-55 TE: Topic 1 18A-19B Topic 2 40A-41B, 42A-43B, 44A-45B, 46A-49B, 50A-53B, 54A-55B
M.4.1.3 Describe mathematics relationships using expressions, equations and visual representations.	SE/TE: Topic 2 44-45, 46-49, 50-53, 57 Topic 12 319 Topic 15 410-412 TE: Topic 2 44B-45B, 46A-49B, 50A-53B, 57 Topic 12 319 Topic 15 410B-412, 413A-413B
M.4.1.4 Recognize and write algebraic expressions for functions with two operations.	Students in Grade 4 write rules for patterns which can be represented as functions defined by one operation. (Please see Topic 15 413A-413B for situations involving two operations.) SE/TE: Topic 2 44-45, 46-49, 50-53, 57 Topic 12 319 Topic 15 410-412 TE: Topic 2 44B-45B, 46A-49B, 50A-53B, 57 Topic 12 319 Topic 15 410B-412, 413A-413B

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M.4.1.5 Use and represent numbers through millions in various contexts including estimation of relative sizes of amounts of distance.	SE/TE: Topic 3 66-67, 68-69, 70-72, 74-77, 78-79, 80-81 TE: Topic 3 66A-67B, 68A-69B, 70A-72, 73A-73B, 74A-77B, 78A-79B, 80A-81B
M.4.1.6 Estimate and describe reasonable estimates; determine an appropriate estimate versus an exact answer.	SE/TE: Topic 3 78-79 Topic 4 94-95 Topic 5 124-125, 126-128 Topic 7 172-173, 174-175 Topic 9 208-209, 210-211 Topic 13 341 TE: Topic 3 78A-79B Topic 4 94A-95B Topic 5 124B-125B, 126A-128, 129A-129B Topic 7 172B-173B, 174A-175B Topic 8 192A Topic 9 208B-209B, 210A-211B Topic 13 341
M.4.1.7 Solve multi-step word problems posed with whole numbers and having whole numbers answers using the four operations including problems in which remainders must be interpreted. Represent these problems using equations with a letter standing for the unknown quantity. Assess the answer using mental computation and estimation strategies including rounding.	SE/TE: Topic 7 176-177 Topic 8 196-197 Topic 10 246-247 TE: Topic 7 176A-177B Topic 8 196A-197B Topic 10 246A-247B

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Standard 2 Operations And Base Ten	
M.4.2.1 Add, subtract, multiply and divide multi-digit whole numbers through four digits fluently, demonstrating understanding of the standard algorithms and checking for reasonableness of results including solving real-world problems.	SE/TE: Topic 4 90-92, 96-98, 100-101, 102-103 Topic 6 142-143, 144-146, 148-150, 152-153 Topic 8 192-193, 194-195 Topic 10 232-234, 236-238, 240-241, 242-243, 244-245 TE: Topic 4 90A-92B, 96A-98, 99A-99B, 100A-101B, 102A-103B Topic 6 142A-143B, 144A-146, 147A-147B, 148A-150, 151A-151B, 152A-153B Topic 8 192A-193B, 194A-195B Topic 10 232A-234, 235A-235B, 236A-238, 239A-239B, 240A-241B, 242A-243B, 244A-245B
M.4.2.2 Use models to represent division as the inverse of multiplication, as partitioning and as successive subtraction.	SE/TE: Topic 1 20-22 Topic 9 206-207, 208-209, 210-211, 212-213, 218-219 Topic 10 228-229, 230-231, 232-234, 235 TE: Topic 1 20A-22, 23A-23B Topic 9 206A-207B, 208A-209B, 210A-211B, 212A-213B, 218A-219B Topic 10 228A-229B, 230A-231B, 232A-235B
M.4.2.3 Estimate and describe reasonable estimates; determine the appropriateness of an estimate versus an exact answer.	SE/TE: Topic 3 78-79 Topic 4 94-95 Topic 5 124-125, 126-128 Topic 7 172-173, 174-175 Topic 9 208-209, 210-211 Topic 13 341 Topic 14 375 TE: Topic 3 78A-79B Topic 4 94A-95B Topic 5 124B-125B, 126A-128, 129A-129B Topic 7 172B-173B, 174A-175B Topic 8 192A Topic 9 208B-209B, 210A-211B Topic 13 341 Topic 14 375

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M.4.2.4 Read, write, and round multi-digit whole numbers using base-ten numerals, number names, and expanded form. Compare two multi-digit numbers using $<$, $=$, and $>$ symbols to record the results of comparisons.	SE/TE: Topic 3 66-67, 68-69, 70-72, 73, 74-77, 78-79, 80-81 TE: Topic 3 66A-67B, 68A-69B, 70A-73B, 74A-77B, 78A-79B, 80A-81B
Standard 3 – Fractions And Decimals	
M.4.3.1 Compare, order and estimate fraction and decimal amounts in real-world problems.	SE/TE: Topic 11 270-272, 274-275 Topic 13 348-350 TE: Topic 11 270A-272, 273A-273B, 274A-275B Topic 13 348A-350, 351A-351B MDIS Lessons: H16, H26, H27
M.4.3.2 Generate and explain why a fraction is equivalent to another fraction by using visual models and simplify fractions.	SE/TE: Topic 11 264-266, 267, 268-269 TE: Topic 11 264B-266, 267, 267A-267B, 268A-269B
M.4.3.3 Determine factors and multiples for a whole number in the range of 1-100.	SE/TE: Topic 11 258-259, 260-261, 262-263 TE: Topic 11 258A-259B, 260A-261B, 262A-263B
M.4.3.4 Use decimals through the thousandths (hundredths) place to name numbers between whole numbers.	SE/TE: Topic 13 336-337, 338-340, 342-344, 346-347, 348-350, 352-353, 354-355 TE: Topic 13 336B-337B, 338A-340, 341A-341B, 342A-344, 345A-345B, 346A-347B, 348A-350, 351A-351B, 352A-353B, 354B-355B
M.4.3.5 Describe decimals as an extension of the base ten number system.	SE/TE: Topic 13 336-337, 338-340, 342-344, 346-347, 348-350, 352-353, 354-355 TE: Topic 13 336B-337B, 338A-340, 341A-341B, 342A-344, 345A-345B, 346A-347B, 348A-350, 351A-351B, 352A-353B, 354B-355B

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M.4.3.6 Relate equivalent fractions and decimals with and without models including location on a number line.	SE/TE: Topic 13 336-337, 338-340, 342-344, 355 TE: Topic 13 336B-337B, 338A-340, 341A-341B, 342A-344, 345A-345B, 355
M.4.3.7 Compare and order decimals and estimate fractions and decimal amounts in real-world problems.	SE/TE: Topic 11 270-272, 274-275 Topic 13 348-350 TE: Topic 11 270A-272, 273A-273B, 274A-275B Topic 13 348A-350, 351A-351B MDIS Lessons: H16, H26, H27
M.4.3.8 Relate halves, fourths, tenths and hundredths to decimals and percents.	SE/TE: Topic 13 336-337, 338-340, 342-344, 355 TE: Topic 13 336B-337B, 338A-340, 341A-341B, 342A-344, 345A-345B, 355 MDIS Lessons: H78, H79
M.4.3.9 Add, subtract, and multiply fractions and mixed numbers with like denominators.	SE/TE: Topic 12 290-291, 292-293, 294-295, 296-297, 298-300, 301, 302-303, 306-308, 310-311, 312-313, 314-315, 316-318 Topic 13 332-333, 334-335 TE: Topic 12 290B-291B, 292A-293B, 294A-295B, 296A-297B, 298A-300, 301, 301A-301B, 302A-303, 305A-305B, 306A-308, 309A-309B, 310A-311B, 312A-313B, 314A-315B, 316A-318, 319A-319B Topic 13 332A-333B, 334A-335B MDIS Lessons: H46, H50

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Standard 4 – Measurement/Data	
M.4.4.1 Compare relative sizes of measurement units within one system of units and record measurement equivalents in a two-column table (i.e. 4 feet or 48 inches).	SE/TE: Topic 12 319 Topic 14 366-367, 368-369, 370-371, 372-374, 376-377, 378-379, 380-381, 382-383, 384-386, 387, 388-389, 390-391 TE: Topic 12 319 Topic 14 366A-367B, 368A-369B, 370A-371B, 372A-374, 375A-375B, 376A-377B, 378A-379B, 380A-381B, 382A-383B, 384A-386, 387, 387A-387B, 388A-389B, 390A-391B
M.4.4.2 Use the four operations to solve word problems involving distances, intervals of time, liquid volumes, masses of objects and money. Represent measurement quantities using diagrams such as number line diagrams that feature a measurement scale.	SE/TE: Topic 13 352-353 Topic 14 367, 369, 371, 373-374, 376-377, 379, 381, 386, 388-389, 390-391 Topic 15 404-405, 406-407, 408-409, 411 TE: Topic 13 352A-353B Topic 14 366B, 367, 368B, 369, 370B, 371, 372B, 373-274, 376A-377B, 378B, 379, 380B, 381, 386, 388A-389B, 390A-391B Topic 15 404A-405B, 406A-407B, 408A-409B, 411
M.4.4.3 Describe and determine area as the number of same-sized units that cover a region in the plane, recognizing that a unit is the standard unit for measuring area.	SE/TE: Topic 15 402-403, 413 TE: Topic 15 402B-403B, 413
M.4.4.4 Solve problems involving addition and subtraction of fractions by using information presented in line plots.	SE/TE: Topic 15 408-409 TE: Topic 15 408A-409B

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M.4.4.5 Recognize angles as geometric shapes that are formed by a common shared endpoint and understand concepts of angle measurement.	SE/TE: Topic 16 424-425, 426-427, 428-429, 430-431, 432-433 TE: Topic 16 424B-425B, 426A-427B, 428A-429B, 430A-431B, 432A-433B
M.4.4.6 Measure angles in whole-number degrees using a protractor. Sketch angles of specified measure.	SE/TE: Topic 16 428-429, 430-431 TE: Topic 16 428B-429B, 430A-431B
M.4.4.7 Apply the area and perimeter formulas for rectangles for real-world mathematics problems.	SE/TE: Topic 1 31 Topic 6 153, 154-155 Topic 7 174-175, 176 Topic 8 191 Topic 12 293 Topic 13 340 Topic 14 367, 376-377, 379, 381 Topic 15 402-403, 410-411, 413 TE: Topic 1 31, 31B Topic 6 153, 154-155 Topic 7 174-175, 176 Topic 8 191 Topic 10 245B Topic 12 293, 293B Topic 13 340, 354B, 355B Topic 14 367, 367B, 376-377, 377B, 379, 379B, 381 Topic 15 402B-403B, 410B, 410-411, 413
Standard 5 – Geometry	
M.4.5.1 Draw points, lines, line segments, rays, angles (right, acute, obtuse) and perpendicular and parallel lines. Identify these in two-dimensional figures.	SE/TE: Topic 16 422-423, 424-425 TE: Topic 16 422A-423B, 424A-425B

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M.4.5.2 Classify angles of two-dimensional shapes using benchmarks (45° , 90° , 180° and 360°).	SE/TE: Topic 16 424-425, 426-427 TE: Topic 16 424A-425B, 426A-427B
M.4.5.3 Classify two-dimensional figures based on the presence or absence of parallel or perpendicular lines or the presence or absence of angles of a specified size. Recognize right triangles as a category and identify right triangles.	SE/TE: Topic 16 434-435, 436-437, 438-439, 442-443 TE: Topic 16 434A-435B, 436A-437B, 438A-439B, 442A-443B
M.4.5.4 Identify and describe the results of translations, reflections and rotations of 45, 90, 180, 270 and 360 degrees including figures with line and rotational symmetry.	SE/TE: Topic 16 432 TE: Topic 16 419B, 440B MDIS Lessons: I15, I16
M.4.5.5 Recognize a line of symmetry for a two-dimensional figure as a line across the figure such that the figure can be folded along the line into matching parts. Identify line-symmetric figures and draw lines of symmetry.	SE/TE: Topic 16 440-441 TE: Topic 16 440A-441B
M.4.5.6 Identify and build a three-dimensional object from a two-dimensional representation of that object and vice versa.	SE/TE: Topic 12 309 MDIS Lessons: I1, I2, I10, I11

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Standard 1 – Division Of Whole Numbers	
M.5.1.1 Describe the process of finding quotients involving multi-digit dividends using models, place value, properties and the relationship of division to multiplication.	SE/TE: Topic 4 92-93, 96-97, 98-100, 102-104, 106-108, 110-111 Topic 5 120-121, 124-125, 126-127, 128-130, 132-133, 134-135 TE: Topic 4 92B-93B, 94A, 96A-97B, 98A-100, 101A-101B, 102A-104, 105A-105B, 106A-108, 109A-109B, 110B-111B Topic 5 120B-121B, 122A, 124B-125B, 126A-127B, 128A-130, 131A-131B, 132A-133B, 134A-135B, 136A
M.5.1.2 Estimate quotients or calculate them mentally, depending on the context and numbers involved.	SE/TE: Topic 4 92-93, 94-95, 96-97, 105, 106-107 Topic 5 120-121, 122-123, 125, 126-127, 128, 134-135 TE: Topic 4 92A-93B, 94A-95B, 96A-97B, 105, 106-107 Topic 5 121A-121B, 122B-123B, 125, 126A-127B, 128, 134A-135B, 136B
M.5.1.3 Interpret solutions to division situations including those with remainders, depending on the context of the problem.	SE/TE: Topic 4 93, 95, 98-100, 104, 107-108, 109, 110-111 Topic 5 121, 124-125, 126-127, 128, 130, 132-133 TE: Topic 4 92B, 93, 93A-93B, 95, 98A-100, 101A-101B, 102B, 104, 105A-105B, 106A-106B, 107-108, 109, 109A-109B, 110B-111B Topic 5 120B, 121, 121A-121B, 122A, 124B-125B, 126A-127B, 128A-128, 130, 131A-131B, 132A-133B, 136A

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M.5.1.4 Divide multi-digit whole numbers fluently, including solving real-world problems, demonstrating understanding of the standard algorithm and checking for reasonable results.	<p>SE/TE: Topic 4 92-93, 96-97, 98-100, 102-104, 106-108, 110-111 Topic 5 120-121, 124-125, 126-127, 128-130, 132-133, 134-135</p> <p>TE: Topic 4 92B-93B, 94A, 96A-97B, 98A-100, 101A-101B, 102A-104, 105A-105B, 106A-108, 109A-109B, 110B-111B Topic 5 120B-121B, 122A, 124B-125B, 126A-127B, 128A-130, 131A-131B, 132A-133B, 134A-135B, 136A</p>
M.5.1.5 Solve non-routine problems using various strategies including "solving a simpler problem" and "guess, check and revise".	<p>SE/TE: Topic 1 18-20 Topic 2 44-45, 50-52 Topic 3 82-83 Topic 4 96-97, 110-111 Topic 5 136-137 Topic 6 160-161 Topic 7 182-184 Topic 8 212-213 Topic 9 226-227, 240-242 Topic 10 266-267 Topic 11 292-293, 298-299 Topic 12 312-313, 322-323 Topic 13 344-345 Topic 14 362-363 Topic 15 382-383 Topic 16 398-399, 404-405</p> <p>TE: Topic 1 18A-20B Topic 2 44A-45B, 50A-52B Topic 3 82A-83B Topic 4 96A-97B, 110A-111B Topic 5 136A-137B Topic 6 160A-161B Topic 7 182A-184B Topic 8 212A-213B Topic 9 226A-227B, 240A-242B Topic 10 266A-267B Topic 11 292A-293B, 298A-299B Topic 12 312A-313B, 322A-323B Topic 13 344A-345B Topic 14 362A-363B Topic 15 382A-383B Topic 16 398A-399B, 404A-405B</p>

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Standard 2 – Addition, Subtraction, Multiplication And Division Of Fractions And Decimals	
<p>M.5.2.1 Represent addition, subtraction, multiplication and division of decimals and fractions with like and unlike denominators using models, place value or properties.</p>	<p>SE/TE: Topic 2: 30-33, 36-39, 46-47, 48-49, 50-51 Topic 6: 146-147, 148-149, 150-151, 152-155, 156-157, 158-159, 160-161 Topic 7: 170-171, 172-173, 174-175, 176-177, 178-179, 180-181, 182-184</p> <p>TE: Topic 2: 30A-30B, 33A-33B, 36A-36B, 39A-39B, 46A-46B, 47A-47B, 48A-48B, 49A-49B, 50A-50B, 51A-51B Topic 6: 146A-146B, 147A-147B, 148A-148B, 149A-149B, 150A-150B, 151A-151B, 152A-152B, 155A-155B, 156A-156B, 157A-157B, 158A-158B, 159A-159B, 160A-160B, 161A-161B Topic 7: 170A-170B, 171A-171B, 172A-172B, 173A-173B, 174A-174B, 175A-175B, 176A-176B, 177A-177B, 178A-178B, 179A-179B, 180A-180B, 181A-181B, 182A-182B, 184A-184B</p>
<p>M.5.2.2 Add, subtract, multiply and divide fractions and decimals fluently to hundredths and verify reasonable results including in-problem situation and real-world problems.</p>	<p>SE/TE: Topic 2 40-42, 46-47, 48-49, 53 Topic 6 152-154, 156-157, 158-159 Topic 7 174-175, 180-181 Topic 9 234-235, 236-237, 238-239 Topic 11 282-285, 294-295, 296-297</p> <p>TE: Topic 2 40B-42, 43B-43B, 46B-47B, 48A-49B, 53 Topic 6 152A-154, 155A-155B, 156A-157B, 158A-159B Topic 7 174A-175B, 180A-181B Topic 9 234B-235B, 236B-237B, 238B-239B Topic 11 282A-285B, 294A-295B, 296A-297B</p>

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M.5.2.3 Make reasonable estimates of fraction and decimal sums, differences, products and quotients and use techniques for rounding.	SE/TE: Topic 2 36-38 Topic 6 148-149 Topic 7 172-173 Topic 9 228-229 Topic 10 254-255 Topic 11 280-281 TE: Topic 2 36B-38, 39A-39B Topic 6 148B-149B Topic 7 172B-173B Topic 9 228B-229B Topic 10 254B-255B Topic 11 280B-281B
M.5.2.4 Determine the prime factorization of numbers.	Exercises in Daily Common Core Review TE: Topic 4 110A Topic 8 202A Topic 11 276A, 292A Topic 15 376A Step-Up Lesson 7 424-425 MDIS Lesson: G63
M.5.2.5 Identify and relate prime and composite numbers, factors and multiples within the context of fractions.	SE/TE: Topic 9 222-223, 224-225, 230-231, 232-233, 234-235, 236-237 Topic 15 382 TE: Topic 9 222B-223B, 224B-225B, 230B-231B, 232B-233B, 234B-235B, 236B-237B Topic 15 382 MDIS Lessons: G59, G60, G61, G63, G64, G65

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M.5.2.6 Read, write, round, and compare decimals to the thousandths using $<$, $=$, $>$ symbols to record the results of comparisons.	SE/TE: Topic 1 8-10, 12-13, 14-15, 16-17, 18-21 Topic 2 34-35 TE: Topic 1 8A-10B, 12A-13B, 14A-15B, 16A-17B, 18A-21B Topic 2 34A-35B
M.5.2.7 Solve real world problems involving multiplication of fractions and mixed numbers by using visual fraction models or equations to represent the problem.	SE/TE: Topic 11 279, 281, 284, 287, 289, 291, 292-293 TE: Topic 11 278B, 280B, 282B, 286B, 288B, 290B
Standard 3 – Algebraic Operations	
M.5.3.1 Use the properties of equality to solve numerical and real-world situations.	SE/TE: Topic 2 44-45 Topic 3 82-83 Topic 8 211 Topic 9 240-242, 243 Topic 10 266-267 Topic 11 298-299 TE: Topic 2 44-45B Topic 3 82B-83B Topic 8 210A Topic 9 240A-242, 243, 243A-243B Topic 10 266B-267B Topic 11 298B-299B
M.5.3.2 Use the order of operations which include parentheses, brackets or braces in numerical expressions and write/interpret simple expressions that record calculations with numbers without evaluating them.	SE/TE: Topic 3 77 Topic 8 196-198, 200-201, 202-203 TE: Topic 3 77 Topic 8 192, 196A-198, 199A-199B, 200A-201B, 202A-203B

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M.5.3.3 Solve non-routine problems using various strategies including “solving a simpler problem” and “guess, check and revise”.	<p>SE/TE: Topic 1 18-20 Topic 2 44-45, 50-52 Topic 3 82-83 Topic 4 96-97, 110-111 Topic 5 136-137 Topic 6 160-161 Topic 7 182-184 Topic 8 212-213 Topic 9 226-227, 240-242 Topic 10 266-267 Topic 11 292-293, 298-299 Topic 12 312-313, 322-323 Topic 13 344-345 Topic 14 362-363 Topic 15 382-383 Topic 16 398-399, 404-405</p> <p>TE: Topic 1 18A-20B Topic 2 44A-45B, 50A-52B Topic 3 82A-83B Topic 4 96A-97B, 110A-111B Topic 5 136A-137B Topic 6 160A-161B Topic 7 182A-184B Topic 8 212A-213B Topic 9 226A-227B, 240A-242B Topic 10 266A-267B Topic 11 292A-293B, 298A-299B Topic 12 312A-313B, 322A-323B Topic 13 344A-345B Topic 14 362A-363B Topic 15 382A-383B Topic 16 398A-399B, 404A-405B</p>
M.5.3.4 Describe real-world situations using positive and negative numbers.	MDIS Lessons: F16, F20, F21
M.5.3.5 Compare, order and graph integers including integers shown on a number line.	Grade 4 students graph positive integers on a number line and in the first quadrant of the coordinate plane (please see Topic 16). MDIS Lessons: F17, F18, F19, F20, F21, F33

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Standard 4 – Geometry	
M.5.4.1 Identify, generate, represent real world problems, and plot ordered pairs on the first quadrant of the coordinate plane.	SE/TE: Topic 16 392-395, 396-397, 398-399, 400-401, 402-403, 404-405 TE: Topic 16 392A-395B, 396A-397B, 398A-399B, 400A-401B, 402A-403B, 404A-405B
M.5.4.2 Compare and analyze the properties of two-dimensional figures and three-dimensional solids (polyhedral) including the number of edges, faces, vertices, angles and types of faces. Then, classify two-dimensional figures in a hierarchy based on properties.	SE/TE: Topic 12 308-309, 310-311, 312-313, 314-315, 322-323 Topic 15 372-373, 374-375, 376-377, 378-379, 380-381, 382-383 TE: Topic 12 308B-309B, 310A-311B, 312A-313B, 314A-315B, 322A-323B Topic 15 372B-373B, 374A-375B, 376A-377B, 378A-379B, 380A-381B, 382-383
M.5.4.3 Describe, define and determine surface area and volume of prisms by using appropriate units and selecting strategies and tools.	SE/TE: Topic 12 308-309, 310-311, 312-313, 314-315, 316-318, 320-321, 322-323 TE: Topic 12 308B-309B, 310A-311B, 312A-313B, 314A-315B, 316A-318, 319A-319B, 320A-321B, 322A-323B Step-Up Lesson 10 430-431
M.5.4.4 Derive and apply formulas for areas of parallelograms, triangles, and trapezoids from the area of a rectangle.	SE/TE: Topic 11 286-287, 297 Topic 12 320-321 Topic 14 357 TE: Topic 11 286A-287B, 290B, 293B, 297 Topic 12 316B, 319A-319B, 320-321 Topic 14 357 MDIS Lessons: D36, D45

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Standard 5 – Measurement And Data	
M.5.5.1 Compare, contrast and convert units of measure within the same dimension (length, mass or time) to solve problems.	SE/TE: Topic 13 332-333, 334-335, 336-337, 338-339, 340-341, 342-343, 344-345 TE: Topic 13 332A-333B, 334A-335B, 336A-337B, 338A-339B, 340A-341B, 342A-343B, 344A-345B
M.5.5.2 Solve problems requiring attention to approximation, selection of appropriate measuring tools and precision of measurement.	Students measure area and volume using formulas and unit cubes. In Grade 5, the curriculum focuses on unit conversion. TE: Topic 2 47 Topic 13 332B, 338B MDIS Lesson: D31, D37, D39, D40
M.5.5.3 Recognize volume as an attribute of solid figures and understand concepts of volume measurement.	SE/TE: Topic 12 308-309, 310-311, 312-313, 314-315, 316-318, 320-321, 322-323 TE: Topic 12 308B-309B, 310A-311B, 312A-313B, 314A-315B, 316A-318, 319A-319B, 320A-321B, 322A-323B
M.5.5.4 Measure volumes by counting unit cubes, using cubic centimeters, cubic inches, and cubic feet and improvised units.	SE/TE: Topic 12 314-315, 316-318, 320-321, 322-323 TE: Topic 12 314A-315B, 316A-318, 319A-319B, 320A-321B, 322A-323B
M.5.5.5 Relate problems finding volume to the operations of multiplication and to addition and solve real-world and mathematical problems involving volume.	SE/TE: Topic 12 314-315, 316-318, 320-321, 322-323 TE: Topic 12 314A-315B, 316A-318, 319A-319B, 320A-321B, 322A-323B

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M.5.5.6 Construct and describe a graph showing continuous data, such as a graph of a quantity that changes over time.	SE/TE: Topic 14 362-363 TE: Topic 14 362A-363B
M.5.5.7 Identify and plot order pairs on the first quadrant of the coordinate plane.	SE/TE: Topic 16 392-395, 396-397, 398-399, 400-401, 402-403, 404-405 TE: Topic 16 392A-395B, 396A-397B, 398A-399B, 400A-401B, 402A-403B, 404A-405B
M.5.5.8 Construct and analyze line graphs and bar graphs.	Grade 5 students construct and analyze line plots and construct line graphs to represent events over time or linear patterns. SE/TE: Topic 14 354-355, 358-359, 360-361, 362-363 Topic 16 400-401, 402-403 TE: Topic 14 354A-355B, 358A-359B, 360A-361B, 362A-363B Topic 16 400A-401B, 402A-403B MDIS Lessons: D71, D75
M.5.5.9 Differentiate between continuous and discrete data and determine ways to represent those using graphs and diagrams.	Grade 5 students graph linear patterns in the first quadrant of the coordinate plane. They graph individual points (discrete graph), and then draw a line through the points (continuous graph). SE/TE: Topic 16 400-401, 402-403 TE: Topic 16 400A-401B, 402A-403B
M.5.5.10 Make a line plot to display a data set of measurement in fractions of a unit ($\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{8}$).	SE/TE: Topic 14 360-361 TE: Topic 14 360A-361B

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Standard 1 – The Number System	
M.6.1.1 Compute fluently with multi-digit numbers and find common factors and multiples.	SE/TE: Topic 1 18-20 Topic 2 34-35, 36-38, 39, 40-41, 42-45, 46-47 Topic 5 120-122, 124-125, 126-127 Topic 7 164-165 TE: Topic 1 18B-20, 21A-21B Topic 2 34B-35B, 36B-38, 39, 39A-39B, 40B-41B, 42B-45B, 46B-47B Topic 5 120A-122, 123A-123B, 124A-125B, 126A-127B Topic 7 164A-165B
M.6.1.2 Divide multi-digit numbers using the standard algorithm.	SE/TE: Topic 1 18-20 Topic 3 74-75, 76-77 TE: Topic 1 18B-20, 21A-21B Topic 3 74A-75B, 76B-77B
M.6.1.3 Fluently add, subtract, multiply and divide multi-digit decimals using the standard algorithm for each operation.	SE/TE: Topic 1 18-20 Topic 3 64-65, 70-72, 76-77, 78-79, 80-81 TE: Topic 1 18A-20, 21A-21B Topic 3 64A-65B, 70A-72, 73A-73B, 76A-77B, 78A-79B, 80A-81B
M.6.1.4 Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12.	SE/TE: Topic 5 126-127 Topic 7 164-165 TE: Topic 5 126A-127B Topic 7 164A-165B

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M.6.1.5 Use the distributive property to express a sum of two whole numbers 1 – 100 with a common factor as a multiple of a sum of two whole numbers with no common factor. For example, express $36 + 8$ as $4(9 + 2)$.	SE/TE: Topic 2 40-41, 42-45 TE: Topic 2 40A-41B, 42A-45B
M.6.1.6 Interpret and compute quotients of fractions and solve word problems involving division of fractions by fractions.	SE/TE: Topic 9 202-203, 204-205, 206-207, 208-209, 210-211, 212-213 TE: Topic 9 202A-203B, 204A-205B, 206A-207B, 208A-209B, 210A-211B, 212A-213B
M.6.1.7 Understand a rational number as a point on a number line. Extend number line diagrams and coordinate axes familiar from previous grades to represent points on a line and in the plane with negative number coordinates.	SE/TE: Topic 10 226-228, 230-231, 234-235, 246-249 TE: Topic 10 226A-228, 229B-229B, 230B-231, 234B-235, 246A-249B
M.6.1.8 Find and position integers and other rational numbers on a horizontal or vertical number line diagram. Find and position pairs of integers and other rational numbers on a coordinate plane.	SE/TE: Topic 10 222-223, 224-225, 226-227, 230-231, 234-235, 242-245, 246-249 Topic 15 380-381, 382-385, 391 TE: Topic 10 222-223B, 224A-225B, 226B-227, 229A-229B, 230B-231, 233B, 234A-235, 237B, 242B-245, 245B, 246B-249B Topic 15 380A-381B, 382A-385B, 391-391B
M.6.1.9 Understand that positive and negative numbers are used together to describe quantities having opposite directions or values.	SE/TE: Topic 10 222-223, 224-225, 226-228, 230-233, 234-237, 238-239, 240-241, 242-245, 246-249 TE: Topic 10 222A-223B, 224A-225B, 226A-228, 229A-229B, 230A-233B, 234A-237B, 238A-239B, 240A-241B, 242A-245B, 246A-249B

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M.6.1.10 Understand ordering and absolute value of rational numbers	SE/TE: Topic 10 222-223, 224-225, 226-227, 230-231, 234-235, 242-245 TE: Topic 10 222-223B, 224A-225B, 226B-227, 229A-229B, 230B-231, 233B, 234A-235, 237B, 242B-245, 245B
M.6.1.11 Solve real-world and mathematical problems by graphing points in all four quadrants of the coordinate plane. Include use of coordinates and absolute value to find distances between points with the same first coordinate or the same second coordinate.	SE/TE: Topic 10 242-245, 246-249 Topic 15 380-381, 382-385, 391 TE: Topic 10 242A-245B, 246A-249B Topic 15 380A-381B, 382A-385B, 391-391B
Standard 2 – Ratios And Proportional Relationships	
M.6.2.1 Understand the concept of a ratio and use ratio language to describe a ratio relationship between two quantities.	SE/TE: Topic 12 300-301, 302-305, 306-307, 308-309, 310-313, 314-315 Topic 13 322-323, 324-325, 326-327, 328-329, 330-333, 334-337 TE: Topic 12 300A-301B, 302A-305B, 306A-307B, 308A-309B, 310A-313B, 314A-315B Topic 13 322A-323B, 324A-325B, 326A-327B, 328A-329A, 330A-333B, 334A-337B
M.6.2.2 Understand the concept of a unit rate a/b associated with a ratio $a:b$ with $b \neq 0$ and use rate language in the context of a ratio relationship.	SE/TE: Topic 12 306-307, 308-309, 310-313 Topic 13 324-325, 329 TE: Topic 12 306A-307B, 308A-309B, 310A-313B Topic 13 324A-325B, 329
M.6.2.3 Use ratio and rate reasoning to solve real-world and mathematical problems.	SE/TE: Topic 12 300-301, 302-305, 306-307, 308-309, 310-313, 314-315 Topic 13 322-323, 324-325, 326-327, 328-329, 330-333, 334-337 TE: Topic 12 300A-301B, 302A-305B, 306A-307B, 308A-309B, 310A-313B, 314A-315B Topic 13 322A-323B, 324A-325B, 326A-327B, 328A-329A, 330A-333B, 334A-337B

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M.6.2.4 Use ratio reasoning to convert measurement units: manipulate and transform units appropriately when multiplying or dividing quantities.	SE/TE: Topic 16 400-402, 404-406 TE: Topic 16 400A-402, 403A-403B, 404A-406, 407A-407B
M.6.2.5 Find a percent of a quantity as a rate per 100 (e.g. 30% of a quantity means 30/100 time the quantity). Solve problems involving finding the whole given a part and the percent.	SE/TE: Topic 14 344-347, 348-349, 350-351, 352-353, 354-357, 358-361, 362-363 TE: Topic 14 344A-346, 347, 347A-347B, 348A-349B, 350A-351B, 352A-353B, 354A-356, 357A-357B, 358A-360, 361A-361B, 362A-363B
Standard 3 – Expression And Equations	
M.6.3.1 Understand solving an equation or inequality as a process of answering a question (i.e. which values from a specific set, if any, make the equation or inequality true?)	SE/TE: Topic 3 82-83 Topic 4 98-100, 101-101, 102-104, 105, 106-108, 110-111 Topic 7 169 Topic 9 212-213 Topic 14 361 Topic 15 372-374, 375, 376-377, 378-379, 380-381 TE: Topic 3 82A-83B Topic 4 98A-100, 101A-101B, 102A-104, 105, 105A-105B, 106A-108, 109A-109B, 110A-111B Topic 7 169 Topic 9 212A-213B Topic 14 361 Topic 15 372A-374, 375, 375A-375B, 376A-377B, 378A-379B, 380A-381B

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M.6.3.2 Solve real-world and mathematical problems by writing and solving equations of the form $x + p = 8$ and $px = q$ for cases in which p , q and x are all non-negative rational numbers.	SE/TE: Topic 3 82-83 Topic 4 98-100, 101-101, 102-104, 105, 106-108, 110-111 Topic 7 169 Topic 9 212-213 Topic 14 361 Topic 15 372-374, 375, 376-377, 378-379, 380-381 TE: Topic 3 82A-83B Topic 4 98A-100, 101A-101B, 102A-104, 105, 105A-105B, 106A-108, 109A-109B, 110A-111B Topic 7 169 Topic 9 212A-213B Topic 14 361 Topic 15 372A-374, 375, 375A-375B, 376A-377B, 378A-379B, 380A-381B
M.6.3.3 Write an inequality of the form $x > c$ or $x < c$ to represent a constraint in a real-world or mathematical problem. Recognize that inequalities of the form $x > c$ or $x < c$ have infinitely many solutions; represent solutions of such inequalities on number line diagrams.	SE/TE: Topic 1 13 Topic 15 386-389 TE: Topic 1 13 Topic 15 386A-389B
M.6.3.4 Use variables to represent two quantities in a real-world problem that change in a relationship to one another. Write an equation to express one quantity thought of as the dependent variable in terms of the other quantity thought of as the independent variable. Analyze the relationship between the dependent and independent variables using graphs and tables and relate these to the equation.	SE/TE: Topic 2 46-47, 48-49, 50-53 Topic 5 131 Topic 6 153 Topic 7 178-179 Topic 11 290-291 Topic 13 322-323 Topic 15 372-374, 376-377, 378-379, 380-381, 382-385, 386-388 Topic 18 461 TE: Topic 2 46A-47B, 48A-49B, 50A-52, 53, 53A-53B Topic 5 131 Topic 6 153 Topic 7 178A-179B Topic 11 290A-291B Topic 13 322A-323B Topic 15 372A-374, 375A-375B, 376A-377B, 378A-379B, 380A-381B, 382A-384, 385, 385A-385B, 386A-388, 389A-389B Topic 18 461

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M.6.3.5 Write, read, and evaluate expressions in which letters stand for numbers and expressions involving whole-number exponents.	SE/TE: Topic 1 10-13 Topic 2 36-39, 40-41, 42-45, 46-47, 48-49, 50-51, 53 Topic 3 80-81 Topic 9 206, 210-211 Topic 10 235-236, 238, 240 Topic 17 434-435 TE: Topic 1 10A-13B Topic 2 36A-39B, 40A-41B, 42A-45B, 46A-47B, 48A-49B, 50A-51, 53-53B Topic 3 80A-81B Topic 9 206, 210-211 Topic 10 235-236, 238, 240 Topic 17 434-435
M.6.3.6 Apply the properties of operations to generate equivalent expressions and identify when two expressions are equivalent.	SE/TE: Topic 2 34-35, 36-38, 39, 40-41, 42-44, 45, 46-47 TE: Topic 2 34A-35B, 36A-38, 39, 39A-39B, 40A-41B, 42A-44, 45A-45B, 46A-47B
Standard 4 – Geometry	
M.6.4.1 Find the area of right triangles, other triangles, special quadrilaterals and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: Topic 17 430-433, 434-437 Topic 18 458-460 TE: Topic 17 430A-433B, 434A-437B Topic 18 458A-460, 461A-461B
M.6.4.2 Find the volume of a right rectangular prism with fractional edge lengths by packing it with unit cubes of the appropriate unit fraction edge lengths and show that the volume is the same as would be found by multiplying the edge lengths of the prism. Apply the formulas $V = lwh$ and $V = bh$ to find volumes of right rectangular prisms with fractional edge lengths in the context of solving real-world and mathematical problems.	SE/TE: Topic 18 462-463, 464-465, 466-469 TE: Topic 18 462A-463B, 464A-465B, 466A-469B

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M.6.4.3 Draw polygons in the coordinate plane, given coordinates for the vertices; use coordinates to find the length of a side joining points with the same first coordinate or the same second coordinate. Apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: Topic 10 248, 250 TE: Topic 10 248, 249B, 250, 253A-253B
M.6.4.4 Represent three-dimensional figures using nets made up of rectangles and triangles and use the nets to find surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.	SE/TE: Topic 18 454-456, 458-460 TE: Topic 18 454A-56, 457A-457B, 458A-460, 461A-461B
Standard 5 – Statistics And Probability	
M.6.5.1 Recognize a statistical question as one that anticipates variability in the data related to the question and accounts for it in the answer. For example, “How old am I?” is not a statistical question, but “How old are the students in my school?” is a statistical question because one anticipates variability in students’ ages.	SE/TE: Topic 19 476-477 TE: Topic 19 476A-477B
M.6.5.2 Understand that a set of data collected to answer a statistical question has a distribution which can be described by its center, spread and overall shape.	SE/TE: Topic 19 478-479 TE: Topic 19 478A-479B
M.6.5.3 Recognize that a measure of center for a numerical data set summarizes all of its values with a single number while a measure of variation describes how its values vary with a single number.	SE/TE: Topic 19 480-481, 482-483, 490-492 TE: Topic 19 480A-481B, 482A-483B, 490A-492, 493A-493B
M.6.5.4 Display numerical data in plots on a number line, including dot plots, histograms and box plots.	SE/TE: Topic 19 484-486, 488-489 TE: Topic 19 484A-486, 487A-487B, 488A-489B

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M.6.5.5 Summarize numerical data sets in relation to their context, such as by:	SE/TE: Topic 19 498-499 TE: Topic 19 498A-499B
<ul style="list-style-type: none"> • Reporting the number of observations. 	SE/TE: Topic 19 498-499 TE: Topic 19 498A-499B
<ul style="list-style-type: none"> • Describing the nature of the attribute under investigation, including how it was measured and its units of measurement. 	SE/TE: Topic 19 498-499 TE: Topic 19 498A-499B
<ul style="list-style-type: none"> • Giving quantitative measure of center (median and/or mode) and variability (interquartile range and/or mean absolute deviation) as well as describing any overall pattern and any striking deviations from the overall pattern with reference to the context in which the data were gathered. 	SE/TE: Topic 19 480-481, 482-483, 490-492, 498-499 TE: Topic 19 480A-481B, 482A-483B, 490A-492, 493A-493B, 498A-499B
<ul style="list-style-type: none"> • Relating the choice of measures of center and variability to the shape of the data distribution and the context in which the data were gathered. 	SE/TE: Topic 19 494-497, 498-499, 500-501 TE: Topic 19 494A-497B, 498A-499B, 500B-501B