Ontario Mathematics

EP Curriculum Map

Grade 3 Mathematics

B. Number

B1. Number Sense

Specific Expectations	Lessons
B1.1. read, represent, compose, and decompose whole numbers up to and including 1000, using a variety of tools and strategies, and describe various ways they are used in everyday life	English 1. Exploring Whole Numbers 2. Comparing and Ordering Numbers up to 1000 3. Rounding to the Nearest Ten and Hundred 4. Counting to 1000 5. Fair-Share Problems 6. Sharing Equally with Equivalent Fractions French 1. L'exploration des nombres entiers! 2. Comparer et ordonner des nombres entiers jusqu'à 1000 3. Arrondir à la dizaine et la centaine la plus proche 4. Compter jusqu'à 1000 : compter par bonds avec des outils et des stratégies 5. Les problèmes de partage équitable 6. Le partage équitable avec les fractions
B1.2. compare and order whole numbers up to and including 1000, in various contexts	
B1.3 round whole numbers to the nearest ten or hundred, in various contexts	
B1.4 count to 1000, including by 50s, 100s, and 200s, using a variety of tools and strategies	
B1.5 use place value when describing and representing multidigit numbers in a variety of ways, including with base ten materials	
B1.6 use drawings to represent, solve, and compare the results of fair-share problems that involve sharing up to 20 items among 2, 3, 4, 5, 6, 8, and 10 sharers, including problems that result in whole numbers, mixed numbers, and fractional amounts	
B1.7 represent and solve fair-share problems that focus on determining and using equivalent fractions, including problems that involve halves, fourths, and eighths; thirds and sixths; and fifths and tenths	

B2. Operations

Specific Expectations	Lessons
B2.1. use the properties of operations, and the relationships between multiplication and division, to solve problems and check calculations	English 1. Mastery of 2, 5 and 10 Multiplication Facts 2. Mental Math with Addition and Subtraction 3. Addition and Subtraction: Tools and Algorithms 4. Visualizing Multiplication and Division 5. Unit fractions 6. Ratios French 1. Les faits de multiplication 2, 5, 10 2. Calculs mentaux avec addition et soustraction 3. Les outils et les algorithmes 4. La visualisation de la multiplication et de la division 5. Les fractions unitaires 6. Les ratios
B2.2. recall and demonstrate multiplication facts of 2, 5, and 10, and related division facts	
B2.3. use mental math strategies, including estimation, to add and subtract whole numbers that add up to no more than 1000, and explain the strategies used	
B2.4 demonstrate an understanding of algorithms for adding and subtracting whole numbers by making connections to and describing the way other tools and strategies are used to add and subtract	
B2.5 represent and solve problems involving the addition and subtraction of whole numbers that add up to no more than 1000, using various tools and algorithms	
B2.6 represent multiplication of numbers up to 10 × 10 and division up to 100 ÷ 10, using a variety of tools and drawings, including arrays	
B2.7 represent and solve problems involving multiplication and division, including problems that involve groups of one half, one fourth, and one third, using tools and drawings	
B2.8 represent the connection between the numerator of a fraction and the repeated addition of the unit fraction with the same denominator using various tools and drawings, and standard fractional notation	
B2.9 use the ratios of 1 to 2, 1 to 5, and 1 to 10 to scale up numbers and to solve problems	

C. Algebra

C1. Patterns and Relationships

Specific Expectations	Lessons
C1.1 identify and describe repeating elements and operations in a variety of patterns, including patterns found in real-life contexts	English 1. Pattern Detectives 2. Creating and Translating Patterns 3. Pattern Extenders and Predictors French 1. Les modèles de mathématiques 2. Créer et traduire des suites 3. Prolonger et prédire les suites
C1.2 create and translate patterns that have repeating elements, movements, or operations using various representations, including shapes, numbers, and tables of values	
C1.3 determine pattern rules and use them to extend patterns, make and justify predictions, and identify missing elements in patterns that have repeating elements, movements, or operations	
C1.4 create and describe patterns to illustrate relationships among whole numbers up to 1000	

C2. Equations and Inequalities

Specific Expectations	Lessons
C2.1 describe how variables are used, and use them in various contexts as appropriate	English 1. Exploring Variables 2. Equivalent Expressions French 1. Explorer les variables 2. Les expressions équivalentes
C2.2 determine whether given sets of addition, subtraction, multiplication, and division expressions are equivalent or not	
C2.3 identify and use equivalent relationships for whole numbers up to 1000, in various contexts	

C3. Coding

Specific Expectations	Lessons
C3.1 solve problems and create computational representations of mathematical situations by writing and executing code, including code that involves sequential, concurrent, and repeating events	English 1. Coding Effects French 1. Les effets de codage
C3.2 read and alter existing code, including code that involves sequential, concurrent, and repeating events, and describe how changes to the code affect the outcomes	

D. Data

D1. Data Literacy

Specific Expectations	Lessons
D1.1. sort sets of data about people or things according to two and three attributes, using tables and logic diagrams, including Venn, Carroll, and tree diagrams, as appropriate	English 1. Collecting and Organizing Data 2. Presenting Data 3. Analyzing Data Sets French 1. Collecte et organisation des données 2. Présentation des données 3. Analyser des données
D1.2. collect data through observations, experiments, and interviews to answer questions of interest that focus on qualitative and quantitative data, and organize the data using frequency tables	
D1.3. display sets of data, using many-to-one correspondence, in pictographs and bar graphs with proper sources, titles, and labels, and appropriate scales	
D1.4. determine the mean and identify the mode(s), if any, for various data sets involving whole numbers, and explain what each of these measures indicates about the data	
D1.5. analyse different data sets presented in various ways, including in frequency tables and in graphs with different scales, by asking and answering questions about the data and drawing conclusions, then make convincing arguments and informed decisions	

D2. Probability

Specific Expectations	Lessons
D2.1. use mathematical language, including the terms “impossible”, “unlikely”, “equally likely”, “likely”, and “certain”, to describe the likelihood of events happening, and use that likelihood to make predictions and informed decisions	English 1. Likelihood and Predictions French 1. Probabilité et prédictions
D2.2. make and test predictions about the likelihood that the mean and the mode(s) of a data set will be the same for data collected from different populations	

E. Spatial Sense

E1. Geometric and Spatial Reasoning

Specific Expectations	Lessons
E1.1. sort, construct, and identify cubes, prisms, pyramids, cylinders, and cones by comparing their faces, edges, vertices, and angles	English 1. Composing and Decomposing Shapes 2. Movement and Directions French 1. Composer et décomposer des formes 2. La position et le déplacement
E1.2. compose and decompose various structures, and identify the two-dimensional shapes and three-dimensional objects that these structures contain	
E.1.3. identify congruent lengths, angles, and faces of three-dimensional objects by mentally and physically matching them, and determine if the objects are congruent	
E.1.4. give and follow multistep instructions involving movement from one location to another, including distances and half and quarter-turns	

E2. Measurement

Specific Expectations/Attentes Spécifiques	Lessons
E2.1. use appropriate units of length to estimate, measure, and compare the perimeters of polygons and curved shapes, and construct polygons with a given perimeter	English 1. Perimeters and Polygons 2. Explaining Metric Units 3. Estimating Capacity 4. Comparing Mass with a Pan Balance 5. Telling Time 6. Measuring Area French 1. Les polygones et les périmètres 2. Expliquer les unités métriques 3. L'estimation des capacités 4. Comparer la masse avec une balance à plateaux 5. Lire l'heure 6. La mesure des aires
E.2.2. explain the relationships between millimetres, centimetres, metres, and kilometres as metric units of length, and use benchmarks for these units to estimate lengths	
E.2.3. use nonstandard units appropriately to estimate, measure, and compare capacity, and explain the effect that overfilling or underfilling, and gaps between units, have on accuracy	
E.2.4. compare, estimate, and measure the mass of various objects, using a pan balance and non-standard units	
E.2.5. use various units of different sizes to measure the same attribute of a given item, and demonstrate that even though using different-sized units produces a different count, the size of the attribute remains the same	
E.2.6. use analog and digital clocks and timers to tell time in hours, minutes, and seconds	
E.2.7. compare the areas of two-dimensional shapes by matching, covering, or decomposing and recomposing the shapes, and demonstrate that different shapes can have the same area	
E.2.8. use appropriate non-standard units to measure area, and explain the effect that gaps and overlaps have on accuracy	

E.2.9. use square centimetres (cm2) and square metres (m2) to estimate, measure, and compare the areas of various two dimensional shapes, including those with curved sides	

F. Financial Literacy

F1. Money and Finances

Specific Expectations/Attentes Spécifiques	Lessons
F1.1. estimate and calculate the change required for various simple cash transactions involving whole dollar amounts and amounts of less than one dollar	English 1. Money Math French 1. L'argent