Quebec Essential Knowledges & Essential Skills Math Software

This document outlines the correlations between the Cycle 1 Quebec Essential Knowledges and the Essential Skills math programs. The specific Quebec Essential Knowledges are noted on the left and are matched with the relevant Essential Skills program on the right. Where correlations are not exact, the difference is noted in brackets. **Essential Skills programs correlate with 90% of the Cycle 1 Quebec Essential Knowledges.**

1. Arithmetic: Understanding and Writing Numbers	
Quebec Essential Knowledges	**Essential Skills Software CORRELATING PROGRAMS**
natural numbers less than 1000 (units, tens, hundreds)	
reading, writing	**Mastering Numeration 2** (to 100) **Mastering Numeration 3** (to 1000)
digit, number	
counting	
one-to-one correspondence	
representation	
comparison	
classification	
order	
equivalent expressions	
writing numbers in expanded form	
patterns	**Patterning, Geometry & Data Management 1** **Problem Solving 2-3**
properties (even numbers, odd numbers)	**Mastering Numeration 2**
number line	**Mastering Numeration 3**
approximation	

Mathematics Correlation - Cycle 1

1. Arithmetic: Understanding and Writing Numbers

fractions related to the student's everyday life	**Mastering Numeration 2** **Problem Solving 2-3**

2. Arithmetic: Meaning of Operations Involving Numbers

Quebec Essential Knowledges	Essential Skills Software CORRELATING PROGRAMS
addition (adding, uniting, comparing), sum	**Mastering Numeration 2** (2 digit)
subtraction (taking away, complement, comparing), difference	**Mastering Numeration 3** **Problem Solving 2-3** (3 digit)
term, missing term	**Mastering Numeration 3**
number line	**Problem Solving 2-3**
multiplication (repeated addition, Cartesian product)	**Mastering Numeration 2** (introduction)
division (repeated subtraction, sharing, number of times x goes into y)	**Mastering Numeration 3** **Problem Solving 2-3** (facts to/from 49)
meaning of an equality relation (equation), meaning of an equivalence relation	**Problem Solving 2-3**
relationships between the operations	
property of operations: commutative law	**Mastering Numeration 1**

3. Arithmetic: Operations Involving Numbers

Quebec Essential Knowledges	Essential Skills Software CORRELATING PROGRAMS
approximating the result of an operation: addition, subtraction	
own processes for mental computation: addition, subtraction	**Mastering Numeration 2**
additions (0 + 0 to 10 + 10) related to the corresponding subtraction	**Mastering Numeration 1**

3. Arithmetic: Operations Involving Numbers	
own processes for written computation: addition, subtraction	**Mastering Numeration 2**
patterns: series of numbers, family of operations	**Patterning, Geometry & Data Management 1** **Problem Solving 2-3**

4. Geometry: Geometric Figures and Spatial Sense	
Quebec Essential Knowledges	**Essential Skills Software CORRELATING PROGRAMS**
locating objects and getting one's bearings in space, spatial relationships (e.g. in front, on, to the left)	**Patterning, Geometry & Data Management 1**
locating objects in a plane	
locating objects on an axis	**Patterning, Geometry & Data Management 3** **Problem Solving 2-3**
comparing and constructing prisms, pyramids, spheres, cylinders, cones	**Patterning, Geometry & Data Management 2** **Problem Solving 2-3**
attributes (number of faces, base): prisms, pyramids	
comparing objects in the environment with solids	
comparing and constructing figures made with closed curved lines or closed straight lines	**Patterning, Geometry & Data Management 1** **Problem Solving 2-3**
identifying a square, rectangle, triangle, circle and rhombus	
describing a square, rectangle, triangle and rhombus	
congruent figures	**Patterning, Geometry & Data Management 3**

5. Measurement	
Quebec Essential Knowledges	**Essential Skills Software CORRELATING PROGRAMS**
dimensions of an object	**Measurement 1** (non-standard units) **Measurement 2 Problem Solving 2-3** (standard units)
unconventional units: comparison, construction of rulers	**Measurement 1** **Problem Solving 2-3**
conventional units (m, dm, cm)	**Measurement 2** **Problem Solving 2-3**
conventional units,duration (day, hour, minute, second, daily cycle, weekly cycle, yearly cycle)	**Measurement 1** **Problem Solving 2-3**

6. Statistics	
Quebec Essential Knowledges	**Essential Skills Software CORRELATING PROGRAMS**
Formulating questions for a survey	**Patterning, Geometry & Data Management 1** **Patterning, Geometry & Data Management 2** **Problem Solving 2-3**
Collecting, describing and organizing data using tables	
Interpreting data using a bar graph, a pictograph and a data table	
Displaying data using a bar graph, a pictograph and a data table	**Patterning, Geometry & Data Management 3**

7. Probability	
Quebec Essential Knowledges	**Essential Skills Software CORRELATING PROGRAMS**
Experimentation with activities involving chance	**Patterning, Geometry & Data Management 1** **Problem Solving 2-3**
Predicting the likelihood of an event (certainty, possibility or impossibility)	
Enumerating the possible outcomes of a simple random experiment	**Patterning, Geometry & Data Management 2** **Problem Solving 2-3**