Mathematics Correlation - Grade 1

Alberta - Western and Northern Canadian Protocols & Essential Skills Math Software

This document outlines the correlations between the Grade 1 Alberta - Western and Northern Canadian Protocols and the Essential Skills math programs. The specific protocols 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 80% of the Grade 1 Western and Northern Canadian Protocols.

1. Number	
Alberta - Western and Northern Canadian Protocols	**Essential Skills Software CORRELATING PROGRAMS**
1. Say the number sequence 0 to 100 by: 1s forward between any two given numbers, 1s backward from 20 to 0, 2s forward from 0 to 20, 5s and 10s forward from 0 to 100.	**Mastering Numeration 1** **Mastering Numeration 2**
2. Subitize (recognize at a glance) and name familiar arrangements of 1 to 10 objects or dots.	**Mastering Numeration 1**
3. Demonstrate an understanding of counting by: indicating that the last number said identifies “how many”, showing that any set has only one count, using the counting-on strategy, using parts or equal groups to count sets.	**Mastering Numeration 1**
4. Represent and describe numbers to 20, concretely, pictorially and symbolically.	**Mastering Numeration 1**
5. Compare sets containing up to 20 elements, using: Referents, one-to-one correspondence to solve problems.	**Mastering Numeration 1** (to 100)
6. Estimate quantities to 20 by using referents.	
7. Demonstrate an understanding of conservation of number.	
8. Identify the number, up to 20, that is: one more, two more, one less, two less than a given number.	**Mastering Numeration 1**

Mathematics Correlation - Grade 1

1. Number	
9. Demonstrate an understanding of addition of numbers with answers to 20 and their corresponding subtraction facts, concretely, pictorially and symbolically, by: using familiar mathematical language to describe additive and subtractive actions, creating and solving problems in context that involve addition and subtraction, modelling addition and subtraction, using a variety of concrete and visual representations, and recording the process symbolically.	**Mastering Numeration 1**
10. Describe and use mental mathematics strategies (memorization not intended), such as: counting on and counting back, making 10, using doubles, thinking addition for subtraction for basic addition facts and related subtraction facts to 18.	**Mastering Numeration 1**

Mathematics Correlation - Grade 1

2. Patterns and Relations	
Alberta - Western and Northern Canadian Protocols	**Essential Skills Software CORRELATING PROGRAMS**
1. Demonstrate an understanding of repeating patterns (two to four elements) by: describing, reproducing, extending, creating patterns using manipulatives, diagrams, sounds and actions.	**Patterning, Geometry & Data Management 1**
2. Translate repeating patterns from one representation to another.	**Patterning, Geometry & Data Management 1**
3. Sort objects, using one attribute, and explain the sorting rule.	**Patterning, Geometry & Data Management 1**
4. Describe equality as a balance and inequality as an imbalance, concretely and pictorially (0 to 20).	**Mastering Numeration 1**
5. Record equalities, using the equal symbol.	**Mastering Numeration 1**

3. Shape and Space	
Alberta - Western and Northern Canadian Protocols	**Essential Skills Software CORRELATING PROGRAMS**
1. Demonstrate an understanding of measurement as a process of comparing by: identifying attributes that can be compared, ordering objects, making statements of comparison, filling, covering or matching.	**Measurement 1**
2. Sort 3-D objects and 2-D shapes, using one attribute, and explain the sorting rule.	**Patterning, Geometry & Data Management 1**
3. Replicate composite 2-D shapes and 3-D objects.	
4. Compare 2-D shapes to parts of 3-D objects in the environment.	