**Mathology Grade 2 Correlation – Alberta**

**Master 16a**

**Patterning Cluster 2: Increasing/Decreasing Patterns**

**Organizing Idea:**

Number: Quantity is measured with numbers that enable counting, labelling, comparing, and operating.

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| **Guiding Question:** How can quantity contribute to a sense of number?**Learning Outcome:** Students analyze quantity to 1000. |
| **Knowledge** | **Understanding** | **Skills & Procedures** | **Grade 2 Mathology** | **Mathology Little Books** |
| A quantity can be skip counted in various ways according to context.Quantities of money can be skip counted in amounts that are represented by coins and bills (denominations). | A quantity can be interpreted as a composition of groups. | Skip count by 20s, 25s, or 50s, starting at 0. | *Link to other strands:****Patterning Intervention****3: Skip-Counting* *4: Repeated Addition and Subtraction*  |  |
| Skip count by 2s and 10s, starting at any number. | *Link to other strands:****Patterning Intervention****3: Skip-Counting* *4: Repeated Addition and Subtraction*  |  |
| Words that can describe a comparison between two unequal quantities include* not equal
* greater than
* less than

The less than sign, <, and the greater than sign, >, are used to indicate inequality between two quantities.Equality and inequality can be modelled using a balance. | Inequality is an imbalance between two quantities. | Model equality and inequality between two quantities, including with a balance.  | *Link to Other Strands:****Patterning Math Every Day****2A: Equal or Not Equal?*  | Nutty and Wolfy |

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| **Guiding Question:** How can addition and subtraction be interpreted?**Learning Outcome:** Students investigate addition and subtraction within 100. |
| **Knowledge** | **Understanding** | **Skills & Procedures** | **Grade 2 Mathology** | **Mathology Little Books** |
| The order in which more than two numbers are added does not affect the sum (associative property). | A sum can be composed in multiple ways. | Compose a sum in multiple ways, including with more than two addends. | *Link to other strands:****Patterning Math Every Day****2A: How Many Ways?* *2B: Which One* *Doesn’t Belong?*  |  |
| Familiar addition and subtraction number facts facilitate addition and subtraction strategies.Addition and subtraction strategies for two-digit numbers include making multiples of ten and using doubles. | Addition and subtraction can represent the sum or difference of countable quantities or measurable lengths.  | Add and subtract numbers within 100.  | *Link to other strands:****Patterning Cluster 2: Increasing/Decreasing Patterns****7: Increasing Patterns 1* |  |
| Verify a sum or difference using inverse operations. |
| Determine a missing quantity in a sum or difference, within 100, in a variety of ways. |

**Master 16b**

**Master 16c**

**Organizing Idea:**

Patterns: Awareness of patterns supports problem solving in various situations.

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| **Guiding Question:** How can patterns characterize change?**Learning Outcome:** Students explain and analyze patterns in a variety of contexts. |
| **Knowledge** | **Understanding** | **Skills & Procedures** | **Grade 2 Mathology** | **Mathology Little Books** |
| Change can be an increase or a decrease in the number and size of elements.A hundreds chart is an arrangement of natural numbers that illustrates multiple patterns.Patterns can be found and created in cultural designs. | A pattern can show increasing or decreasing change.A pattern is more evident when the elements are represented, organized, aligned, or oriented in familiar ways. | Investigate patterns in a hundreds chart. | **Patterning Intervention**3: Skip-Counting |  |
| Create and express growing patterns using sounds, objects, pictures, or actions. | **Patterning Cluster 2: Increasing/Decreasing Patterns**7: Increasing Patterns 18: Increasing Patterns 29: Reproducing Patterns10: Creating Patterns11: Errors and Missing Terms12: Solving Problems13: Consolidation**Patterning Intervention**3: Skip-Counting4: Repeated Addition and Subtraction | The Best Surprise |