**Mathology Grade 2 Correlation – Alberta**

**Master 1a**

**Patterning Cluster 1: Repeating Patterns**

**Organizing Idea:**

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

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **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. | Describe non-repeating patterns encountered in surroundings, including in art, architecture, cultural designs, and nature. | **Patterning Math Every Day**  1: Patterns Around Us | Pattern Quest  The Best Surprise |
| Investigate patterns in a hundreds chart. | **Patterning Cluster 1: Repeating Patterns**  2: Finding Patterns |  |
| Create and express growing patterns using sounds, objects, pictures, or actions. | **Patterning Math Every Day**  1A: Show Another Way  1A: Patterns Around Us  1B: How Many Can We Make?  1B: Error Hunt | The Best Surprise |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Attributes of elements, such as size and colour, can contribute to a pattern. | A pattern core can vary in complexity. | Create and express a repeating pattern with a pattern core of up to four elements that change by more than one attribute. | **Patterning Cluster 1: Repeating Patterns**  1: Exploring Patterns  3: Extending and Predicting  4: Error and Missing Elements  5: Combining Attributes  6: Consolidation  **Patterning Math Every Day**  1A: Show Another Way  1A: Patterns Around Us  **Patterning Intervention**  1: Finding the Core  2: Representing Patterns | Pattern Quest |

**Master 1b**