**Mathology Grade 1 Correlation – Alberta**

**Master 16a**

**Patterning Cluster 3: Patterns in Cycles**

**Organizing Idea:**

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

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| **Guiding Question:** What can patterns communicate?**Learning Outcome:** Students examine pattern in cycles. |
| **Knowledge** | **Understanding** | **Skills & Procedures** | **Grade 1 Mathology** | **Mathology Little Books** |
| A cycle can express repetition of events or experiences.Cycles include* seasons
* day/night
* life cycles
* calendars

The same pattern can be represented with different elements.A pattern core is a sequence of one or more elements that repeats as a unit. | A pattern that appears to repeat may not repeat in the same way forever.A cycle is a repeating pattern that repeats in the same way forever. | Recognize cycles encountered in daily routines and nature. | **Patterning Cluster 3: Patterns in Cycles**9: Investigating Cycles |  |
| Investigate cycles found in nature that inform First Nations, Métis, or Inuit practices. | **Patterning Cluster 3: Patterns in Cycles**9: Investigating Cycles |  |
| Identify the pattern core, up to four elements, in a cycle. | **Patterning Cluster 3: Patterns in Cycles**10: Identifying and Describing Patterns in Cycles |  |
| Identify a missing element in a repeating pattern or cycle. | **Patterning Cluster 3: Patterns in Cycles**10: Identifying and Describing Patterns in Cycles |  |

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|  |  | Describe change and constancy in repeating patterns and cycles. | **Patterning Cluster 3: Patterns in Cycles**10: Identifying and Describing Patterns in Cycles |  |
| Create different representations of the same repeating pattern or cycle, limited to a pattern core of up to four elements. | **Patterning Cluster 3: Patterns in Cycles**11: Creating and Extending Patterns in Cycles |  |
| Extend a sequence of elements in various ways to create repeating patterns. | **Patterning Cluster 3: Patterns in Cycles**11: Creating and Extending Patterns in Cycles12: Consolidation |  |

**Master 16b**