**Mathology Grade 2 Correlation – Alberta**

**Master 14a**

**Geometry Cluster 3: Geometric Relationships**

**Organizing Idea:**

Geometry: Shapes are defined and related by geometric attributes.

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| **Guiding Question:** How can shape influence perception of space?**Learning Outcome:** Students analyze and explain geometric attributes of shape. |
| **Knowledge** | **Understanding** | **Skills & Procedures** | **Grade 2 Mathology** | **Mathology Little Books** |
| Common geometric attributes include* sides
* vertices
* faces or surfaces

Two-dimensional shapes may have sides that are line segments.Three-dimensional shapes may have faces that are two-dimensional shapes. | Shapes are defined according to geometric attributes.A shape can be visualized as a composition of other shapes. | Relate the faces of three-dimensional shapes to two-dimensional shapes. | **Geometry Cluster 3: Geometric Relationships**8: Describing Solids **Geometry Math Every Day**3B: Name the Solid | I Spy Awesome BuildingsSharing Our Stories |
| Create a picture or design with shapes from verbal instructions, visualization, or memory. | **Geometry Cluster 3: Geometric Relationships**7: Making Shapes8: Describing Solids 9: Visualizing Shapes and Solids10: Creating Pictures and Designs11: Covering Outlines12: Creating Symmetrical Designs15. Consolidation**Geometry Math Every Day**3A: Fill Me In!3A: Make me a Picture3B: Draw the Shape**Geometry Intervention**5: Covering Outlines6: Describing Solids | I Spy Awesome BuildingsSharing Our Stories |

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| A shape can change orientation or position through slides (translations), turns (rotations), or flips (reflections).Shapes can be turned or flipped in the creation of art. | Geometric attributes do not change when a shape is translated, rotated, or reflected. | Investigate translation, rotation, and reflection of two- and three-dimensional shapes. | **Geometry Cluster 3: Geometric Relationships**12: Creating Symmetric Designs13: Exploring Transformations14: Slides, Flips, and Turns in Artwork  |  |
| Recognize the translation, rotation, or reflection of shapes represented in artwork. | **Geometry Cluster 3: Geometric Relationships**14: Slides, Flips, and Turns in Artwork | Sharing Our Stories |

**Master 14b**

**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. | Describe non-repeating patterns encountered in surroundings, including in art, architecture, cultural designs, and nature. | *Link to other strands:****Geometry Cluster 3: Geometric Relationships****14: Slides, Flips, and Turns in Artwork*  |  |