**Curriculum Correlation**

**Master 13a**

**Geometry Cluster 2: 3-D Solids**

**Ontario**

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| **Curriculum Expectations** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **Overall Expectations**  **G1 Geometric Properties:** identify two-dimensional shapes and three-dimensional figures and sort and classify them by their geometric properties  **Cross Strand:** Patterning and Algebra  **Patterns and Relationships:** identify, describe, extend, and create repeating patterns, growing patterns, and shrinking patterns | | | |
| **G1.1** distinguish between the attributes of an object that are geometric properties (e.g., number of sides, number of faces) and the attributes that are not geometric properties (e.g., colour, size, texture), using a variety of tools (e.g., attribute blocks, geometric solids, connecting cubes).  **G1.3** identify and describe various three-dimensional figures (i.e., cubes, prisms, pyramids) and sort and classify them by their geometric properties (i.e., number and shape of faces), using concrete materials.  **G1.4** create models and skeletons of prisms and  pyramids, using concrete materials (e.g., cardboard; straws and modelling clay), and describe their geometric properties (i.e.,  number and shape of faces, number of edges). | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (G1.1, G1.3)  7: 3-D Solids Around Us  (G1.3)  8: Constructing 3-D Solids (G1.4)  9: Constructing Skeletons (G1.4)  10: 3-D Solids Consolidation  (G1.3, G1.4)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (G1.3)  What Do You See? (G1.3)  **Card 2B:** Solids Around Us (G1.3)  Which Solid Does Not Belong? (G1.3) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13b**

**Geometry Cluster 2: 3-D Solids**

**British Columbia/Yukon Territories**

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| **Learning Standards** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **Big Idea**  Objects and shapes have attributes that can be described, measured, and compared.  **Cross Strand:** Patterns and Relations | | | |
| **G1 Multiple attributes of 2D shapes and 3D objects**   * **G1.1** sorting 2D shapes and 3D objects using two attributes, and explaining the sorting rule * **G1.3** identifying 2D shapes as part of 3D objects | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (G1.1, G1.3)  7: 3-D Solids Around Us  8: Constructing 3-D Solids  9: Constructing Skeletons  10: 3-D Solids Consolidation  (G1.1, G1.3)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry What Do You See? G1.3)  **Card 2B:** Solids Around Us Which Solid Does Not Belong? (G1.1) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13c**

**Geometry Cluster 2: 3-D Solids**

**New Brunswick/Prince Edward Island/Newfoundland and Labrador**

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| **Specific Outcomes** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **General Outcome**  Shape and Space: Describe 3-D objects and 2-D shapes, and analyze the relationships  **Cross Strand:** Patterns and Relations | | | |
| **SS6** Sort 2-D shapes and 3-D objects using two attributes, and explain the sorting rule.  **SS7** Describe, compare and construct 3-D objects, including:  • cubes  • spheres • cones  • cylinders  • pyramids.  **SS9** Identify 2-D shapes as parts of 3-D objects in the environment. | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (SS6, SS7)  7: 3-D Solids Around Us  (SS9)  8: Constructing 3-D Solids (SS7)  9: Constructing Skeletons (SS7)  10: 3-D Solids Consolidation  (SS7)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (SS7)  What Do You See? (SS7)  **Card 2B:** Solids Around Us (SS9)  Which Solid Does Not Belong? (SS6) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13d**

**Geometry Cluster 2: 3-D Solids**

**Manitoba**

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| **Specific Outcomes** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **General Outcome**  Shape and Space: Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.  **Cross Strand:** Patterns and Relations | | | |
| **2.SS.6** Sort 2-D shapes and 3-D objects using two attributes, and explain the sorting rule.  **2.SS.7** Describe, compare, and construct 3-D objects, including  • cubes  • spheres  • cones  • cylinders  • prisms  • pyramids.  **2.SS.9** Identify 2-D shapes as parts of 3-D objects in the environment. | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (2.SS.6, 2.SS.7)  7: 3-D Solids Around Us (2.SS.9)  8: Constructing 3-D Solids (2.SS.7)  9: Constructing Skeletons (2.SS.7)  10: 3-D Solids Consolidation (2.SS.7)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (2.SS.7)  What Do You See? (2.SS.7)  **Card 2B:** Solids Around Us (2.SS.9)  Which Solid Does Not Belong? (2.SS.6) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13e**

**Geometry Cluster 2: 3-D Solids**

**Nova Scotia**

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| **Specific Outcomes** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **General Outcome**  Geometry: Students will be expected to describe the characteristics of 3-D objects and 2-D shapes and analyze the relationships among them.  **Cross Strand:** Patterns and Relations | | | |
| **G01** Students will be expected to sort 2-D shapes and 3-D objects using two attributes and explain the sorting rule.  **G02** Students will be expected to recognize, name, describe, compare, and build 3-D objects, including cubes and other prisms, spheres, cones, cylinders, and pyramids.  **G04** Students will be expected to identify 2-D shapes as part of 3-D objects in the environment. | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (G01, G02)  7: 3-D Solids Around Us  (G04)  8: Constructing 3-D Solids (G02)  9: Constructing Skeletons (G02)  10: 3-D Solids Consolidation  (G02)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (G02)  What Do You See? (G02)  **Card 2B:** Solids Around Us (G04)  Which Solid Does Not Belong? (G01) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13f**

**Geometry Cluster 2: 3-D Solids**

**Alberta/Northwest Territories/Nunavut**

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| **Learning Outcomes** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **General Outcome**  Describe the characteristics of 3-D objects and 2-D shapes, and analyze the relationships among them.  **Cross Strand:** Patterns and Relations | | | |
| **Shape and Space**  **6.** Sort 2-D shapes and 3-D objects, using two attributes, and explain the sorting rule.  **7.** Describe, compare and construct 3-D objects, including:  • cubes  • spheres  • cones  • cylinders  • pyramids.  **9.** Identify 2-D shapes as parts of 3-D objects in the environment.  **Patterns and Relations**  **3.** Sort a set of objects, using two attributes, and explain the sorting rule. | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (SS6, SS9, PR3)  7: 3-D Solids Around Us  (SS7, SS9)  8: Constructing 3-D Solids  (SS7)  9: Constructing Skeletons  (SS7)  10: 3-D Solids Consolidation  (SS6, SS7, SS9, PR3)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (SS7, SS9)  What Do You See? (SS7, SS9)  **Card 2B:** Solids Around Us (SS7, SS9)  Which Solid Does Not Belong?  (SS7) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |

**Curriculum Correlation**

**Master 13g**

**Geometry Cluster 2: 3-D Solids**

**Saskatchewan**

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| **Specific Outcomes** | **Mathology Grade 2 Classroom Activity Kit** | **Mathology Little Books** | **Pearson Canada K-3 Mathematics Learning Progression** |
| **Goals**  Spatial Sense, Logical Thinking, Mathematics as a Human Endeavour  **Cross Strand:** Patterns and Relations | | | |
| **Shape and Space**  **SS2.3** Describe, compare, and construct 3-D objects, including:  • cubes  • spheres  • cones  • cylinders  • pyramids.  **SS2.5** Demonstrate understanding of the relationship between 2-D shapes and 3-D objects. | **Below Grade: Intervention**  3: Sorting Solids  4: Attributes of Solids  **On Grade: Teacher Cards**  6: Sorting 3-D Solids (SS2.3)  7: 3-D Solids Around Us  (SS2.3, SS2.5)  8: Constructing 3-D Solids (SS2.3)  9: Constructing Skeletons (SS2.3)  10: 3-D Solids Consolidation  (SS2.3, SS2.5)  **On Grade: Math Every Day**  **Card 2A:** Geometry in Poetry (SS2.3, SS2.5)  What Do You See?  (SS2.3, SS2.5)  **Card 2B:** Solids Around Us (SS2.3, SS2.5)  Which Solid Does Not Belong? (SS2.3) | **Below Grade:**   * What Was Here?  (Activities 6, 7, 10)   **On Grade:**   * I Spy Awesome Buildings (Activities 6, 7, 9, 10)   **Above Grade:**   * WONDERful Buildings (Activities 6, 7, 8, 10) | **Big Idea: 2-D shapes and 3-D solids can be analyzed and classified in different ways by their attributes.** |
| **Investigating Geometric Attributes and Properties of 2-D Shapes and 3-D Solids**  - Compares 3-D solids to find the similarities and differences. (Activities 6, 7, 8, 9; MED 2B: 2)  - Analyzes geometric attributes of 3-D solids (e.g., number of edges, faces, corners).  (Activities 6, 7, 8, 9, 10; MED 2A: 1, 2; MED 2B: 2)  - Identifies 2-D shapes in 3-D objects in the environment. (Activities 7, 10; MED 2A: 1, 2; MED 2B: 1)  - Classifies and names 3-D solids based on common attributes. (Activities 6, 7, 8, 9, 10)  - Constructs and compares 3-D solids with given attributes (e.g., number of vertices, faces).  (Activities 8, 9, 10) |
| **Big Idea: Regularity and repetition form patterns**  **that can be generalized and predicted mathematically.** |
| **Identifying, Sorting, and Classifying Attributes and Patterns Mathematically (e.g., Number of Sides, Shape, Size)**  - Identifies the sorting rule used to sort sets.  (Activity 6)  - Sorts a set of objects based on two attributes. (Activities 6, 10) |