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To the WKCE-CRT Mathematics Assessment Frameworks

GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective A: Mathematical Processes			
Students will effectively use mathematical knowledge, skills and strategies related to reasoning, communication, connections, representation and problem solving.			
Use reasoning and logic to: • Perceive patterns • Identify relationships • Formulate questions • Pose problems • Make conjectures • Justify strategies • Test reasonableness of results	**New Concept** Lesson(s): 11, 12, 15, 29, 35, 46, 63, 76, 77, 87, 88, 105, 111, 118, 120 **Investigation** Number(s): 4, 9, 12	**Power Up** Lesson(s): 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 59, 73, 74, 75, 76, 115 **Written Practice** Lesson(s): 35, 42, 45, 65, 75, 77, 88, 89, 91, 116, 119	**Cumulative Test** Number(s): 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 12A, 12B, 13A, 13B, 14A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B **Power Up Test** Number(s): 9, 12, 14, 22
Communicate mathematical ideas and reasoning using the vocabulary of mathematics in a variety of ways e.g., using words, numbers, symbols, pictures, charts, tables, diagrams, graphs, and models.	**New Concept** Lesson(s): 11, 12, 15, 29, 35, 46, 63, 76, 77, 87, 88, 105, 111, 118, 120 **Investigation** Number(s): 4, 9, 12	**Power Up** Lesson(s): 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 59, 73, 74, 75, 76, 115 **Written Practice** Lesson(s): 35, 42, 45, 65, 75, 77, 88, 89, 91, 116, 119	**Cumulative Test** Number(s): 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 12A, 12B, 13A, 13B, 14A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B **Power Up Test** Number(s): 9, 12, 14, 22
Connect mathematics to the real world, as well as within mathematics.	**New Concept** Lesson(s): 23, 30, 37, 46, 60, 63, 76, 79, 81, 87, 90, 91, 116, 119 **Investigation** Number(s): 2, 3	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 19, 22, 29, 35, 47, 62, 78, 85, 86, 93, 95, 117, 118	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18
Create and use representations to organize, record, and communicate mathematical ideas.	**New Concept** Lesson(s): 2, 15, 18, 25, 29, 50, 54, 55, 80, 82, 90, 112 **Investigation** Number(s): 2, 3	**Power Up** Lesson(s): 57, 58, 60, 78, 80, 91, 107-109 **Written Practice** Lesson(s): 57, 58, 61, 63, 64, 65, 79, 80, 81, 82, 83, 85, 105, 110, 112, 113, 115	**Cumulative Test** Number(s): 2A, 2B, 3A, 3B, 5A, 5B, 8A, 8B, 11A, 11B, 16A, 16B, 18A, 18B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 9, 10
Solve and analyze routine and non-routine problems.	**New Concept** Lesson(s): 11, 12, 15, 29, 35, 46, 63, 76, 77, 87, 88, 105, 111, 118, 120 **Investigation** Number(s): 4, 9, 12	**Power Up** Lesson(s): 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 59, 73, 74, 75, 76, 115 **Written Practice** Lesson(s): 35, 42, 45, 65, 75, 77, 88, 89, 91, 116, 119	**Cumulative Test** Number(s): 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 12A, 12B, 13A, 13B, 14A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B **Power Up Test** Number(s): 9, 12, 14, 22

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GRADE FIVE			
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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.a.: Concepts			
Recognize and apply place-value concepts to whole numbers less than 1,000,000	**New Concept** Lesson(s): 7, 9, 13, 48, 52, 64, 106 **Investigation** Number(s): 1, 2, 5, 6, 7, 11	**Power Up** Lesson(s): 1, 3, 20 **Written Practice** Lesson(s): 43, 44, 54, 85, 47, 52, 63	**Cumulative Test** Number(s): 7A, 7B, 10A, 10B, 14A, 14B, 15A, 15B **Power Up Test** Number(s): 1, 3, 20
Read, write, and represent numbers using words, numerals, pictures (e.g.,. base ten blocks), number lines, ,arrays, expanded forms (243=200+40+3) and symbolic renaming e.g., 243=250-7.	**New Concept** Lesson(s): 7, 9, 13, 48, 52, 64, 106 **Investigation** Number(s): 1, 2, 5, 6, 7, 11	**Power Up** Lesson(s): 1, 3, 20 **Written Practice** Lesson(s): 43, 44, 54, 85, 92, 94, 99, 100	**Cumulative Test** Number(s): 7A, 7B, 10A, 10B, 14A, 14B, 15A, 15B **Power Up Test** Number(s): 1, 3, 20
Compare and order numbers less than 10,000 represented in numbers, arrays, symbols (<, > , =) and words.	**New Concept** Lesson(s): 23, 30, 37, 38, 39, 40, 41, 43, 46, 58, 59, 60, 63, 66, 71, 72, 75, 76, 81, 82, 86, 87, 90, 91, 95, 100, 101, 112, 113, 116, 119, 120 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 19, 22	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18, 21, 22, 23
Use basic facts to determine the first ten multiples of 2-10 and determine factors for numbers up to 100.	**New Concept** Lesson(s): 8, 19 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 1, 3, 5, 6, 8, 9, 10, 21, 25, 64, 67, 100, 101 **Written Practice** Lesson(s): 9, 10, 11, 20, 22	**Cumulative Test** Number(s): 3A, 3B, 4A, 4B, 10A, 10B **Power Up Test** Number(s): 8, 9, 10, 12, 13, 14, 15, 16
Recognize the divisibility potential of numbers (divisors of 2, 5, 10, 25)	**New Concept** Lesson(s): 6, 7, 9, 13, 19, 49, 50, 53, 74, 85, 88, 93, 96, 105, 112 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 1, 5, 6, 7, 13, 23, 27, 45, 50, 52, 53, 66, 69, 73, 85, 92 **Written Practice** Lesson(s): 8, 11, 16, 22, 52, 53, 89, 95, 98, 107, 108, 113, 114, 115	**Cumulative Test** Number(s): 7A, 7B, 8A, 8B, 11A, 11B, 13A, 13B
Count using whole numbers less than 10,000 and by any number 1-12 and 'friendly numbers' through 100 (ex. 20, 25, etc.)	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 7, 9, 13, 48, 52, 64, 106 **Investigation** Number(s): 1, 2, 12	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 8, 11, 16, 22, 52, 53, 89, 95, 98, 107, 108, 113, 114, 115	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 7, 9, 13, 48, 52, 64, 106

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GRADE FIVE			
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MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.a.: Concepts			
Read, write, represent, count, compare and order, and make change using a collection of coins and bills equal to and less than $20.00.	**New Concept** Lesson(s): 6, 13, 17, 51 **Investigation** Number(s): 1, 2, 6	**Power Up** Lesson(s): 1, 3 **Written Practice** Lesson(s): 6, 13, 17, 51, 65, 73, 86	**Cumulative Test** Number(s): 2A, 2B, 3A, 3B, 10A, 10B **Power Up Test** Number(s): 2, 3, 10
Read, write and identify, equivalent fractions (1/4s, 1/2s, 1/8s, 1/10s, 1/16s)	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111, 120
Represent fractions (1/4s, 1/2s, 1/8s, 1/10s, 1/16s) using numbers, pictures (e.g. drawings or base ten blocks), and number lines.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111, 120
Order and compare fractions (1/4s, 1/2s, 1/8s, 1/10s, 1/16s) represented numerically or as models (including parts of a set and parts of a whole)	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 25, 80 **Investigation** Number(s): 3	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 26, 30, 37, 81	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 25, 80
Rename improper fractions to mixed numbers.	**New Concept** Lesson(s): 23, 30, 37, 38, 39, 40, 41, 43, 46, 58, 59, 60, 63, 66, 71, 72, 75, 76, 81, 82, 86, 87, 90, 91, 95, 100, 101, 112, 113, 116, 119, 120 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 19, 22	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18, 21, 22, 23
Subskill B.b.: Computation			
Use all operations in everyday situations to solve single or multi-step word problems.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15

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GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective B: Number Operations and Relationships			
Subskill B.b.: Computation			
Solve three-and four-digit addition and subtraction with regrouping; multiplication of two-digit by one-digit numbers; division with single-digit divisors and two-digit dividends and with two-step or mixed operation problems with single-digit numbers.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15
Add and subtract decimals in the context of money.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 13, 73, 99, 102	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 84, 85, 94, 101, 105	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 13, 73, 99, 102
Solve problems using basic multiplication and division facts.	**New Concept** Lesson(s): 109, 110, 111, 117, 118, 119 **Investigation** Number(s): 11, 12	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 19, 22	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18, 21, 22, 23
Add and subtract fractions with like denominators.	**New Concept** Lesson(s): 23, 30, 37, 38, 39, 40, 41, 43, 46, 58, 59, 60, 63, 66, 71, 72, 75, 76, 81, 82, 86, 87, 90, 91, 95, 100, 101, 112, 113, 116, 119, 120 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 23, 24, 43, 66, 87, 119, 120	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18, 21, 22, 23
Estimate: multiplication of two-digit by one-digit problems, addition and subtraction of decimals using money, and division in context	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 55, 62, 94, 117, 118, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 55, 58, 62, 67, 68, 71, 74, 83, 91, 95, 111, 117, 118, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 55, 62, 94
Determine reasonableness of answers.	**New Concept** Lesson(s): 55, 62, 94 **Investigation** Number(s): 1, 2, 3	**Written Practice** Lesson(s): 55, 58, 62, 67, 68, 71, 74, 83, 91, 95, 111	**Cumulative Test** Number(s): 11A, 11B, 13A, 13B, 19A, 19B

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MATHEMATICS			
Objective C: Geometry			
Subskill C.a.: Describe figures			
Identify, describe and compare properties of 2-and 3-dimensional figures, comparing sides, faces, vertices and edges of regular figures including parallel and perpendicular lines and line segments.	**New Concept** Lesson(s): 32, 36, 45, 61, 71, 72, 75, 81, 82, 89, 103, 111, 115 **Investigation** Number(s): 4, 5, 8, 9, 10, 11, 12	**Power Up** Lesson(s): 11, 12, 15, 17, 23, 75 **Written Practice** Lesson(s): 31, 36, 61	**Cumulative Test** Number(s): 21A, 21B, 22A, 22B **Power Up Test** Number(s): 14
Determine the number of faces, edges and vertices given an illustration of a 3-dimensional figure.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 11, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111
Subskill C.b.: Spatial relationships and transformations			
Use pattern blocks and dot paper (geoboards) to describe, model and construct plane figures.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 11, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111
Identify cubes, rectangular and triangular prisms and rectangular and triangular pyramids from simple nets (flat patterns).	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 11, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111
Use slides, flips and turns on figures. Identify congruent shapes using figures that have been manipulated by one or two motions (slides, flips and turns).	**New Concept** Lesson(s): 11, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	**Power Up** Lesson(s): 15, 65, 88, 89, 103, 104, 105 **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	**Cumulative Test** Number(s): 20A, 20B, 22A, 22B **Power Up Test** Number(s): 16, 19
Discern a shape with one line of symmetry.	**New Concept** Lesson(s): 11, 61, 65, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	**Power Up** Lesson(s): 15, 65, 88, 89, 103, 104, 105 **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	**Cumulative Test** Number(s): 13A, 13B, 15A, 15B, 16A, 16B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 12, 16, 19

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MATHEMATICS			
Objective C: Geometry			
Subskill C.b.: Spatial relationships and transformations			
Identify and describe 3-dimensional figures from multiple perspectives.	**New Concept** Lesson(s): 11, 12, 31, 32, 36, 61, 71, 88, 93, 105, 120 **Investigation** Number(s): 5, 6, 8, 9, 12	**Power Up** Lesson(s): 12, 15, 60, 63-65, 69, 70, 79, 81, 82, 84, 85, 88, 89, 100, 101, 102, 103, 104, 105, 114, 115, 116, 117, 120 **Written Practice** Lesson(s): 12, 14, 35, 42, 45, 65, 75, 77, 88, 89, 91, 98, 102, 103, 104, 105	**Cumulative Test** Number(s): 16A, 16B, 18A, 18B, 19A, 19B, 20A, 20B, 21A, 21B, 22A, 22B **Power Up Test** Number(s): 16, 17, 19
Subskill C.c.: Coordinate Systems			
Use simple 2-dimensional coordinate systems to identify or plot locations on maps and to represent points and simple figures with coordinates using letters and numbers, (e.g., (E, 3)).	**New Concept** Lesson(s): 11, 88, 105, 120 **Investigation** Number(s): 8, 9, 12	**Power Up** Lesson(s): 15, 65, 88, 89, 103, 104, 105 **Written Practice** Lesson(s): 63, 64, 81, 82, 84, 100, 101, 102, 114, 115, 116, 117, 120	**Cumulative Test** Number(s): 20A, 20B, 22A, 22B **Power Up Test** Number(s): 16, 19
Identify and use relationships among figures (e.g., location, position and intersection).	**New Concept** Lesson(s): 12, 31, 32, 36, 61, 71, 88, 93, 105, 120 **Investigation** Number(s): 5, 6, 8	**Power Up** Lesson(s): 12, 29, 30, 33, 35, 59, 60, 69, 70, 79, 84, 85 **Written Practice** Lesson(s): 12, 13, 14, 35, 42, 43, 44, 45, 75, 76, 77, 91, 98, 99, 100, 101, 102	**Cumulative Test** Number(s): 16A, 16B, 18A, 18B, 19A, 19B, 21A, 21B **Power Up Test** Number(s): 17
Objective D: Measurement			
Subskill D.a.: Measurable attributes			
Identify appropriate units to measure length, liquid capacity, volume, weight/mass, time, temperature. Units include: inches, feet, yards, miles, millimeters, centimeters, meters, kilometers, ounces, cups quarts, gallons, liters, seconds, minutes, hours, days, months, years, ounces, pounds, grams, kilograms and degrees Fahrenheit/Celsius.	**New Concept** Lesson(s): 35, 44, 85, 90, 99, 100, 120 **Investigation** Number(s): 4, 5	**Power Up** Lesson(s): 28, 47, 85, 90, 100 , 109, 111, 120 **Written Practice** Lesson(s): 28, 33, 44, 46, 49, 98, 99, 102, 103, 108, 110	**Cumulative Test** Number(s): 9A, 9B, 18A, 18B, 19A, 19B **Power Up Test** Number(s): 16, 17, 19, 23
Compare attributes of length and weight by direct observation or when given actual measurements.	**New Concept** Lesson(s): 53, 72, 103, 114 **Investigation** Number(s): 6, 8, 11, 12	**Power Up** Lesson(s): 11, 12, 14, 16, 17 **Written Practice** Lesson(s): 53, 72, 103, 114, 116, 118	**Cumulative Test** Number(s): 10A, 10B, 14A, 14B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 10, 14, 20, 22

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MATHEMATICS			
Objective D: Measurement			
Subskill D.a.: Measurable attributes			
Make measurement conversions within a system between units (e.g., feet and yards; inches and feet; quarts and gallons; meters and centimeters; minutes and hours; hours and days; months and years).	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 35, 44, 47, 85, 90, 100, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 44, 55, 61, 65, 68, 74, 77, 85	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 35, 44, 47, 85, 90, 100, 120
Subskill D.b.: Direct measurement			
Read, interpret and use measuring instruments to determine the measurement of objects with non- standard and standard units to the nearest ¼-inch or centimeter.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 35, 44, 47, 85, 90, 100, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 44, 55, 61, 65, 68, 74, 77, 85	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 35, 44, 47, 85, 90, 100, 120
Read thermometers to the nearest five degrees F/C and read a scale to the nearest ounce or five grams.	**New Concept** Lesson(s): 35, 44, 85, 90, 100, 120 **Investigation** Number(s): 4, 5	**Power Up** Lesson(s): 85, 90, 100, 120	**Cumulative Test** Number(s): 8A, 8B, 9A, 9B **Power Up Test** Number(s): 16, 17, 19, 23
Translate time on an analog clock to a digital clock and vice versa.	**New Concept** Lesson(s): 35, 44, 85, 90, 100, 120 **Investigation** Number(s): 4, 5	**Power Up** Lesson(s): 85, 90, 100, 120 **Written Practice** Lesson(s): 19	**Cumulative Test** Number(s): 8A, 8B, 9A, 9B **Power Up Test** Number(s): 16, 17, 19, 23
Determine and compare elapsed time in problem-solving situations.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 19	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120
Subskill D.c.: Indirect measurement			
Estimate measurement using U.S customary and metric measurements.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 19	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120
Determine perimeter and area of regular shapes and the area of plane rectangular shapes.	**New Concept** Lesson(s): 53, 72, 103, 114 **Investigation** Lesson(s): 6, 8, 11, 12	**Power Up** Lesson(s): 11, 12, 14, 16, 17 **Written Practice** Lesson(s): 53, 72, 103, 114, 116, 118	**Cumulative Test** Number(s): 10A, 10B, 14A, 14B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 10, 14, 20, 22

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GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective D: Measurement			
Subskill D.c.: Indirect measurement			
Determine perimeter and area of irregular shapes when given a reference tool such as a grid.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 53, 72, 103, 114	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 53, 72, 103, 114, 116, 118	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 53, 72, 103, 114
Objective E: Statistics and Probability			
Subskill E.a.: Data analysis and statistics			
Formulate questions to collect, organize and display data.	**New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115 **Investigation** Number(s): 5, 6, 7, 9, 11	**Power Up** Lesson(s): 50, 54, 55, 68, 70, 92, 106, 107, 115 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 9A, 9B, 10A, 10B, 11A, 11B, 15A, 15B, 17A, 17B **Power Up Test** Number(s): 10, 13, 22
Collect, organize and display data in appropriate graphs or charts.	**New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115 **Investigation** Number(s): 5, 6, 7, 9, 11	**Power Up** Lesson(s): 50, 54, 55, 68, 70, 92, 106, 107, 115 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 9A, 9B, 10A, 10B, 11A, 11B, 15A, 15B, 17A, 17B **Power Up Test** Number(s): 10, 13, 22
Draw reasonable conclusions based on contextual data.	**New Concept** Lesson(s): 11, 12, 15, 29, 35, 46, 63, 76, 77, 87, 88, 105, 111, 118, 120 **Investigation** Number(s): 4, 9, 12	**Power Up** Lesson(s): 1, 2, 3, 4, 5, 8, 9, 10, 11, 12, 13, 14, 59, 73, 74, 75, 76, 115 **Written Practice** Lesson(s): 35, 42, 45, 65, 75, 77, 88, 89, 91, 116, 119	**Cumulative Test** Number(s): 1A, 1B, 2A, 2B, 3A, 3B, 4A, 4B, 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 12A, 12B, 13A, 13B, 14A, 14B, 15A, 15B, 16A, 16B, 17A, 17B, 18A, 18B, 19A, 19B **Power Up Test** Number(s): 9, 12, 14, 22
Use data to predict outcomes or trends from graph or table.	**New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115 **Investigation** Number(s): 5, 6, 7, 9, 11	**Power Up** Lesson(s): 50, 54, 55, 68, 70, 92, 106, 107, 115 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 9A, 9B, 10A, 10B, 11A, 11B, 15A, 15B, 17A, 17B **Power Up Test** Number(s): 10, 13, 22
Read and interpret information from single bar graphs, line plots, picture graphs and Venn diagrams.	**New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115 **Investigation** Number(s): 5, 6, 7, 9, 11	**Power Up** Lesson(s): 50, 54, 55, 68, 70, 92, 106, 107, 115 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 9A, 9B, 10A, 10B, 11A, 11B, 15A, 15B, 17A, 17B **Power Up Test** Number(s): 10, 13, 22

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GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective E: Statistics and Probability			
Subskill E.a.: Data analysis and statistics			
Describe a given set of data of seven items/numbers or fewer using the terms range, mode and median in problems with and without context.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 50, 84	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 50, 84, 91	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 50, 84
Subskill E.b.: Probability			
Determine if future events are more, less or equally likely, impossible or certain to occur.	**New Concept** Lesson(s): 57, 81, 110, 115 **Investigation** Number(s): 9	**Power Up** Lesson(s): 57, 58, 60, 78, 80, 91, 107, 108, 109 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 2A, 2B, 3A, 3B, 5A, 5B, 8A, 8B, 11A, 11B, 16A, 16B, 18A, 18B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 10, 13, 23
Choose or design an event that is fair or unfair.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115
Predict the outcomes of a simple event using words to describe probability and test predictions using data from a variety of sources.	**New Concept** Lesson(s): 57, 81, 110, 115 **Investigation** Number(s): 9	**Power Up** Lesson(s): 57, 58, 60, 78, 80, 91, 107, 108, 109 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 2A, 2B, 3A, 3B, 5A, 5B, 8A, 8B, 11A, 11B, 16A, 16B, 18A, 18B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 10, 13, 23
Describe and determine the number of combinations for choosing 2 out of 4 items Ex: What are the possible combinations when selecting 2 items from a menu of 4 items (chips, cookie, pizza, banana, etc.)?	**New Concept** Lesson(s): 50, 55, 70, 74, 84, 93, 98, 108, 115 **Investigation** Number(s): 5, 6, 7, 9, 11	**Power Up** Lesson(s): 50, 54, 55, 68, 70, 92, 106, 107, 115 **Written Practice** Lesson(s): 50, 51, 53, 62, 66, 67, 70, 71, 75, 85, 91, 94, 95, 100, 112, 115	**Cumulative Test** Number(s): 9A, 9B, 10A, 10B, 11A, 11B, 15A, 15B, 17A, 17B **Power Up Test** Number(s): 10, 13, 22

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GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective F : Algebraic Relationships			
Subskill F.a.: Patterns, relations and functions			
Recognize, extend, describe, create and replicate a variety of patterns including attribute, numeric and geometric patterns.	**New Concept** Lesson(s): 1, 2, 3, 10, 11, 14, 16, 18, 21, 24, 26, 61 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 6, 8, 13, 14, 17, 19, 23, 25, 54, 59 **Written Practice** Lesson(s): 3, 5, 6, 11, 12, 15, 17, 19, 20, 26, 34, 47, 62, 65	**Cumulative Test** Number(s): 2A, 2B. 4A, 4B, 6A, 6B, 11A, 11B, 15A, 15B, 19A, 19B, 21A, 21B, 23A, 23B **Power Up Test** Number(s): 2
Represent patterns and relationships with pictures, tables and charts.	**New Concept** Lesson(s): 1, 2, 3, 10, 11, 14, 16, 18, 21, 24, 26, 61 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 6, 8, 13, 14, 17, 19, 23, 25, 54, 59 **Written Practice** Lesson(s): 3, 5, 6, 11, 12, 15, 17, 19, 20, 26, 34, 47, 62, 65	**Cumulative Test** Number(s): 2A, 2B, 4A, 4B, 6A, 6B, 11A, 11B, 15A, 15B, 19A, 19B, 21A, 21B, 23A, 23B **Power Up Test** Number(s): 2
Describe a rule that explains a functional relationship or pattern using addition, subtraction or multiplication rules.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 1, 2, 3, 10, 11, 14, 16, 18, 21, 24, 26, 61	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 3, 5, 6, 11, 12, 15, 17, 19, 20, 26, 34, 47, 62, 65	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 1, 2, 3, 10, 11, 14, 16, 18, 21, 24, 26, 61
Determine a future event in a pattern up to the eighth item when given the first five.	**New Concept** Lesson(s): 1, 2, 3, 10, 11, 14, 16, 18, 21, 24, 26, 61 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 6, 8, 13, 14, 17, 19, 23, 25, 54, 59 **Written Practice** Lesson(s): 3, 56, 11, 12, 15, 17, 19, 20, 26, 34, 47, 62, 65	**Cumulative Test** Number(s): 2A, 2B, 4A, 4B, 6A, 6B, 11A, 11B, 15A, 15B, 19A, 19B, 21A, 21B, 23A, 23B **Power Up Test** Number(s): 2
Subskill F.b.: Expressions, equations and inequalities			
Solve simple one-step open sentences involving all operations in context.	**New Concept** Lesson(s): 10, 11, 14, 16, 18, 21, 26, 35, 46, 60, 61 **Investigation** Number(s): 1, 2	**Power Up** Lesson(s): 10, 11, 12, 15, 17, 25, 33, 42 **Written Practice** Lesson(s): 10, 12, 15, 17, 23, 27, 29, 34, 37, 38, 39, 42, 43, 45, 51, 53, 55, 57, 73, 81, 84, 85	**Cumulative Test** Number(s): 2A, 2B, 4A, 4B, 6A, 6B, 11A, 11B, 15A, 15B, 19A, 19B, 21A, 21B, 23A, 23B **Power Up Test** Number(s): 2
Demonstrate a basic understanding of equality and inequality using symbols (<, >, =) with all operations.	**New Concept** Lesson(s): 23, 30, 37, 38, 39, 40, 41, 43, 46, 58, 59, 60, 63, 66, 71, 72, 75, 76, 81, 82, 86, 87, 90, 91, 95, 100, 101, 112, 113, 116, 119, 120 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 2, 3, 18, 19, 22, 95 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 19, 22	**Cumulative Test** Number(s): 5A, 5B, 6A, 6B, 7A, 7B, 8A, 8B, 9A, 9B, 10A, 10B, 11A, 11B, 12A, 12B, 14A, 14B, 15A, 15B, 17A, 17B, 18A, 18B, 19A, 19B, 20A, 20B, 22A, 22B, 23A, 23B **Power Up Test** Number(s): 18, 21, 22, 23

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GRADE FIVE			
GRADE 5 WKCE-CRT MATHEMATICS ASSESSMENT FRAMEWORKS	**INSTRUCTION**	**MAINTENANCE**	**ASSESSMENT**
MATHEMATICS			
Objective F : Algebraic Relationships			
Subskill F.b.: Expressions, equations and inequalities			
Solve simple one-step open sentences including missing factor in problems with and without context e.g., "box" or letter variable and whole number coefficients.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15
Represent problem situations with one-step equations involving multiplication and division with simple open sentences.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15
Represent problem situations with one-step equations or expressions using one of the four operations.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15
Subskill F.c.: Properties			
Use the commutative property of multiplication with positive single digits.	*There is an opportunity to introduce during*: **New Concept** Number(s): 24	**Written Practice** Lesson(s): 24, 32, 48	**Cumulative Test** Lesson(s): 7A, 7B
Use the inverse relationship of division and multiplication with single digit, whole numbers.	*There is an opportunity to introduce during*: **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120 **Investigation** Number(s): 4, 5	*There is an opportunity to practice by teacher questioning and observation following*: **Written Practice** Lesson(s): 19	*There is an opportunity to assess by teacher questioning and observation after:* **New Concept** Lesson(s): 35, 44, 85, 90, 100, 120
Demonstrate understanding of order of operations by solving two-step open sentences involving all operations.	**New Concept** Lesson(s): 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 20, 22, 35, 48, 54, 64, 80, 111 **Investigation** Number(s): 2, 3, 4, 5, 6, 9, 10, 11, 12	**Power Up** Lesson(s): 1, 3, 12, 35, 80 **Written Practice** Lesson(s): 1, 3, 4, 5, 18, 21, 37, 49, 56, 69, 78, 93	**Cumulative Test** Number(s): 1A, 1B, 5A, 5B, 7A, 7B, 12A, 12B, 20A, 20B, 22A, 22B **Power Up Test** Number(s): 3, 5, 15