## Idaho Extended Standards Draft Extended Content Indicators <br> Grade 3 <br> Mathematics

Standard 1: Number and Operation: Students in Grade 3 read, write, compare, and order whole numbers to 10,000 and identify place value through 9,999 . Students count the value of a collection of bills and coins up to $\$ 10.00$. Students use concrete material to recognize and represent commonly used fractions. Students add and subtract whole numbers with and without regrouping through 999 and students recall basic addition and subtraction facts through 18 . Students multiply whole numbers through $10 \times 10$.

Extended Standard 1: Students in Grade 3 read, write, compare, and order whole numbers and identify simple place value. Students identify and sort the value of coins and dollars. Students use concrete materials to recognize commonly used fractions. Using manipulatives, symbolic symbols, or calculator, students add and subtract whole numbers with or without reqrouping and students identify basic math fact families. Students explore multiplication through repeated sets.

| Topic | GR | Goals | Objectives | Essence | Extended Content Indicators |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3.M.1.1 | Understand and use numbers. | 3.M.1.1.1 Read, write, compare, <br> and order whole numbers to <br> $10,000 .(287.01 . a)$ | Students identify and <br> order whole numbers <br> and identify place value <br> of whole numbers. <br> Students sort by identity <br> or value the collection <br> of bills and coins up to <br> $\$ 10.00$. Students use <br> concrete materials to <br> recognize or represent <br> commonly used <br> fractions. | 3.M.1.1.1 A <br> Identify whole numbers in order up to 30, using a number line when <br> necessary |
|  |  |  |  | 3.M.1.1.2 Identify place value <br> through 9,999. (287.01.b) | 3.M.1.1.3 Count the value of a <br> collection of bills and coins up to <br> \$10.00. (287.01.c) |
|  |  |  | 3.M.1.1.4 Recognize, name, and <br> represent commonly used fractions <br> using concrete materials. (287.01.a) |  | 3.M.1.1.2A <br> Identify place value of numbers through 30. |
|  |  |  | 3.M.1.1.5 Recognize mathematical <br> information and select strategies <br> appropriate for solving a multi-step <br> problem. (288.01.a) |  | 3.M.1.1.3 A <br> Sort coins and one dollar bill by identity and value. |
|  |  |  |  | 3.M.1.1.4 A <br> Recognize commonly used fractions using concrete materials. |  |


|  |  |  | 3.M.1.1.6 Use appropriate <br> vocabulary. (287.01.f) | 3.M.1.1.6 A <br> Recognize appropriate math vocabulary terms. |
| :--- | :--- | :--- | :--- | :--- | :--- |

Standard 1: Number and Operation - Students in Grade 3 read, write, compare, and order whole numbers to 10,000 and identify place value through 9,999 . Students count the value of a collection of bills and coins up to $\$ 10.00$. Students use concrete material to recognize and represent commonly used fractions. Students add and subtract whole numbers with and without regrouping through 999 and students recall basic addition and subtraction facts through 18. Students multiply whole numbers through $10 \times 10$.

Extended Standard 1: Students in Grade 3 read, write, compare, and order whole numbers and identify simple place value. Students identify and sort the value of coins and dollars. Students use concrete materials to recognize commonly used fractions. Using manipulatives, symbolic symbols, or calculator, students add and subtract whole numbers with or without reqrouping and students identify basic math fact families. Students explore multiplication through repeated sets.

| Topic | Gr | Goal | Objectives | Essence | Extended Content Indicators |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3.M.1.2 | Perform computations <br> accurately. | 3.M.1.2.1 Recall basic <br> addition and subtraction facts <br> through 18. (287.02.b) | Students add and subtract <br> whole numbers and <br> students recall basic <br> addition and subtraction <br> facts. Students multiply <br> whole numbers. | 3.M.1.2.1 A <br> Use objects, pictures, or symbolic systems to solve addition or subtraction <br> problems up to 18 |
|  |  |  | 3.M.1.2.2 Add and subtract <br> whole numbers with and <br> without regrouping through <br> 999. (287.02.a) |  | 3.M.1.2.2 A <br> Explore adding and subtracting with regrouping using manipulatives. |
|  |  |  | 3.M.1.2.3 Add three one- and <br> two- digit addends. (287.02.c) | 3.M.1.2.4 Multiply whole <br> numbers through 10 x 10. <br> (287.02.d) | 3.M.1.2.3 A <br> Count three groups of objects, pictures or symbolic system to identify total <br> quantity up to ten. |
|  |  |  | 3.M.1.2.5 Select and use an <br> appropriate method of <br> computation from mental <br> math, paper and pencil, <br> calculator, or a combination <br> of the three. (287.02.f) | 3.M.1.2.4 A <br> Explore multiplication through the manipulation of adding repeated sets |  |
|  |  |  | 3.M.1.2.6 Use appropriate <br> operations to solve word <br> problems and show or explain <br> work. (288.01.b) | 3.M.1.2.5 A <br> Use concrete objects, a symbolic systems, and or calculator to solve addition <br> and subtractions problems |  |


|  |  |  | 3.M.1.2.7 Use appropriate <br> vocabulary. (287.02.g) | 3.M.1.2.7 A <br> Recognize appropriate math vocabulary terms |
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| Topic | Gr | Goal | Objectives | Essence | Extended Content Indicators |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | $3 . M .1 .3$ | Estimate and judge <br> reasonableness of results. | 3.M.1.3.1 Estimate to predict <br> sums and differences. <br> (287.03.a) | Estimate and judge <br> reasonableness of sum or <br> difference. | 3.M.1.3.1 A <br> Estimate to predict sums |
|  |  |  | 3.M.1.3.2 Use estimation to <br> evaluate the reasonableness of <br> a sum or difference. <br> (287.03.b) |  | 3.M.1.3.2 A <br> Use estimation to evaluate the reasonableness of a sum. |
|  |  |  | 3.M.1.3.3 Investigate the use <br> of a four-function calculator <br> to solve complex grade-level <br> problems. (288.03.a) | 3.M.1.3.3.3 A <br> Inse appropriate <br> Investigate the use of a calculator to solve simple problems. |  |
|  |  |  |  | 3.M.1.3.4 A <br> Recognize appropriate vocabulary. |  |

Standard 2: Concepts and Principles of Measurement - Students in Grade 3 select and use appropriate units and tools to make formal measurements of time, length, temperature, and perimeter in both systems. Students estimate measurements in real-world problems using standard units. Students tell time using digital and analog clocks using five-minute intervals.

Extended Standard 2: Students in Grade 3 identify and use appropriate formal tools or nonstandard units to make measurements of time, length, and temperature. Students use estimation of measurements in real world problems. Students tell time using digital and/or analog clocks.

| Topic | Gr | Goal | Objectives | Essence |  |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3.M.2.1 | Understand and use U.S. <br> customary and metric <br> measurements. | 3.M.2.1.1 Select and use <br> appropriate units and tools to <br> make formal measurements of <br> length and temperature in <br> both systems. (289.01.a) |  | Extended Content Indicators |
|  |  |  | 3.M.2.1.2 Estimate length, <br> time, and weight in real- <br> world problems using <br> standard units. (289.01.b) | 3.M.2.1.1 A <br> Use appropriate tools or non-standard units to measure length or temperature. |  |
|  |  |  | 3.M.2.1.3 Tell time using <br> digital and analog clocks <br> using quarter hour and five <br> minute intervals. (289.01.e) | 3.M.2.1.2 A <br> Estimate time and weight using non-standard or standard units in real world problems. <br> problems related to time. |  |
|  |  |  | 3.M.2.1.5 Identify <br> relationships of length and <br> time within the U.S. <br> customary system and within <br> the metric system. (289.01.c, <br> 289.01.d) | 3.M.2.1.3 A <br> Identify time of day by activity - e.g. morning before school, schooltime, after school, after <br> dinner |  |
|  |  |  | 3.M.2.1.6 State that there are <br> 24 hours in a day, 7 days in a <br> week, and 12 months in a <br> year. | 3.M.2.1.4 A <br> Identify real world problems related to time. |  |
|  |  |  | 3.M.2.1.7 Use appropriate <br> vocabulary. (289.01.g) | Identify a unit of measurement of length and time within the U.S. customary system or within <br> the metric system. |  |

Standard 2: Concepts and Principles of Measurement - Students in Grade 3 select and use appropriate units and tools to make formal measurements of time, length, temperature, and perimeter in both systems. Students estimate measurements in real-world problems using standard units. Students tell time using digital and analog clocks using five-minute intervals.

Extended Standard 2: Students in Grade 3 identify and use appropriate formal tools or nonstandard units to make measurements of time, length, and temperature. Students use estimation of measurements in real world problems. Students tell time using digital and/or analog clocks.

| Topic | Gr | Goal | Objectives | Essence | Extended Content Indicators |
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|  | $3 . M .2 .2$ | Goal 2.2: Apply the concepts <br> of rates, ratios, and <br> proportions. | No objectives at this grade <br> level. |  | No objectives at this grade level. |
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Extended Standard 2: Students in Grade 3 identify and use appropriate formal tools or nonstandard units to make measurements of time, length, and temperature. Students use estimation of measurements in real world problems. Students tell time using digital and/or analog clocks.

| Topic | Gr | Goal | Objective | Essence | Extended Content Indicators |
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|  | $3 . M .2 .3$ | Apply dimensional analysis. | No objectives at this grade <br> level. |  | No objectives at this grade level. |
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Standard 3: Concepts and Language of Algebra and Functions - Students in Grade 3 write a multiplication problem vertically and horizontally. Students read and use the symbols of " $<$," " $>$," and " $=$ " to express relationships with numbers through 9,999 . Students use the commutative property of multiplication. Students extend a growing arithmetic, numerical pattern when given a rule with a single operation of one digit addition.

Extended Standard 3: Students in Grade 3 write multiplication problems symbolized either vertically or horizontally. Students identify the symbols of "<," " $>$," and "=" to indicate relationships with numbers. Students identify problems with the communicative property. Students extend a growing pattern when given a rule.

| Topic | Gr | Goal | Objectives | Essence | Extended Content Indicators |
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|  | 3.M.3.1 | Goal 3.1: Use algebraic symbolism as a tool to represent mathematical relationships. | 3.M.3.1.1 Write a multiplication problem vertically and horizontally. (290.01.a) |  | 3.M.3.1.1 A <br> Use concrete objects to symbolize multiple sets that would be reflected in a simple multiplication problem. |
|  |  |  | 3.M.3.1.2 Write a number sentence using simple geometric shapes as symbols to represent an unknown number. (290.01.b) |  | 3.M.3.1.2 A <br> Using a geometric shape to represent a missing number, express an addition or subtraction problem with concrete objects, pictures, or numerals. |
|  |  |  | 3.M.3.1.3 Write a fact family when given two addends. |  | 3.M.3.1.3 A <br> Express addition or subtraction statements for a fact family given two addends. |
|  |  |  | 3.M.3.1.4 Read and use symbols (<, >, =) to express relationships with numbers through 9,999. (290.01.c) |  | 3.M.3.1.4 A <br> Compare objects or pictures using the vocabulary or symbols for (<, >, =) to express relationships with quantity. |

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Extended Standard 3: Students in Grade 3 write multiplication problems symbolized either vertically or horizontally. Students identify the symbols of " $<$," " $>$," and " $=$ " to indicate relationships with numbers. Students identify problems with the communicative property. Students identify a growing arithmetic, numerical pattern which has a given rule.

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|  | $3 . M .3 .2$ | Goal 3.2: Evaluate algebraic <br> expressions | 3.M.3.2.1 Use the <br> commutative property of <br> multiplication. (290.02.a) | 3.M.3.2.1 A <br> Copy the commutative property of multiplication with products up to 6 |  |
|  |  | 3.M.3.2.2 Solve <br> multiplication problems using <br> the commutative property <br> (e.g., If $24 \times 38=912$, then <br> what is $38 \times 24$ ? ). | 3. M.3.2.2 A <br> Identify math problems with the commutative property (e.g., If $1+2=3$, then 2+1=3 or 1x2=2 <br> or 2x1=2). |  |  |

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|  | $3 . M .3 .3$ | Goal 3.3: Solve algebraic <br> equations and inequalities | 3.M.3.3.1 Solve missing <br> addend equations. (290.03.a) |  | 3.M.3.3.1 A <br> Solve missing addend equations, using concrete objects when necessary. |

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|  | 3.M.3.4 | Goal 3.4: Understand the <br> concept of functions. | 3.M.3.4.1 Extend a growing <br> arithmetic, numerical pattern <br> when given a rule with a <br> single operation of one digit <br> addition (e.g., add 3). <br> (293.01.a) | 3.M.3.4.1 A <br> Replicate a numerical pattern when given the +1 rule with addition (e.g. 1, 1+1, 2+1, 3+1, <br> $4+1, \ldots$ ) |  |
|  |  |  | 3.M.3.4.2 Use appropriate <br> vocabulary. (293.01.c) |  | 3.M.3.4.2 A <br> Recognize appropriate vocabulary. |
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|  | $3 . M .3 .5$ | Goal 3.5: Represent <br> equations, inequalities and <br> functions in a variety of <br> formats. | No objectives at this grade <br> level. | No objectives at this grade level. |  |
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|  | 3.M.3.6 | Goal 3.6: Apply functions to a <br> variety of problems | No objectives at this grade <br> level. | No objectives at this grade level. |  |
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Standard 4: Concepts and Principles of Geometry - Students in Grade 3 identify, compare, and analyze attributes of two- and three- dimensional shapes, including right angles, squares, and three-dimensional shapes in the environment, and students develop vocabulary to describe the attributes. Students identify vertical and horizontal lines of symmetry.

Extended Standard 4: Students in Grade 3 write multiplication problems symbolized either vertically or horizontally. Students identify the symbols of " $<$," " $>$," and " $=$ " to indicate relationships with numbers. Students identify problems with the communicative property. Students identify a growing arithmetic, numerical pattern which has a given rule.

| Topic | Gr | Goal | Objective | Essence | Extended Content Indicators |
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|  | 3.M.4.1 | Goal 4.1: Apply concepts of <br> size, shape, and spatial <br> relationships. | 3.M.4.1.1 Identify, compare, <br> and analyze atributes of two- <br> and three- dimensional <br> shapes, including right <br> angles, squares, and three- <br> dimensional shapes in <br> environment, and develop <br> vocabulary to describe the <br> attributes. | 3.M.4.1.1.A <br> Compare two- and three- dimensional shapes in the environment, and develop vocabulary to <br> describe the attributes |  |
|  |  |  | 3.M.4.1.2 Discuss sliding and <br> flipping of two-dimensional <br> shapes. |  | 3.M.4.1.2 A <br> Recognize sliding and flipping of two-dimensional shapes. |
|  |  | 3.M.4.1.3 Identify vertical <br> and horizontal lines of <br> symmetry. |  | 3.M.4.1.3.A <br> Identify vertical or horizontal lines of symmetry. |  |
|  |  | 3.M.4.1.4 Use appropriate <br> vocabulary. |  | 3.M.4.1.4 A <br> Recognize appropriate vocabulary |  |

Standard 4: Concepts and Principles of Geometry - Students in Grade 3 identify, compare, and analyze attributes of two- and three- dimensional shapes, including right angles, squares, and three-dimensional shapes in the environment, and students develop vocabulary to describe the attributes. Students identify vertical and horizontal lines of symmetry.

Extended Standard 4: Students in Grade 3 write multiplication problems symbolized either vertically or horizontally. Students identify the symbols of " $<$," " $>$," and " $=$ " to indicate relationships with numbers. Students identify problems with the communicative property. Students identify a growing arithmetic, numerical pattern which has a given rule.

| Topic | Gr | Goal | Objective | Essence |  |
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|  | $3 . M .4 .2$ | Goal 4.2: Apply the geometry <br> of right triangles. | No objectives at this grade <br> level. | No objectives at this grade level. |  |
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|  | $3 . M .4 .3$ | Goal 4.3: Apply graphing in <br> two dimensions. | 3.M.4.3.1 Identify the point <br> of final destination given <br> directions for movement on a <br> positive number line. | 3.M.4.3.1.A <br> Identify the point of final destination given directions for movement using 1 to 5 on a horizontal <br> positive number line. |  |

Standard 5: Data Analysis, Probability, and Statistics - Students in Grade 3 interpret information found in simple tables, bar graphs, and charts. Students collect, organize, and display data in tables, charts, or bar graphs in order to answer a question.

Extended Standard 5: Students in Grade 3 identify information found in tables, bar graphs, or charts. Students collect, organize, and display data in simple formats in order to answer a question.

| Topic | Gr | Goal | Objective | Essence | Extended Content Indicators |
| :--- | :--- | :--- | :--- | :--- | :--- |
|  | 3.M.5.1 | Goal 5.1: Understand data <br> analysis. | 3.M.5.1.1 Interpret <br> information found in tables, <br> bar graphs, and charts. <br> (292.01.a) | 3.M.5.1.1.A <br> Interpret information found in simple bar graphs or circle graphs |  |
|  |  | 3.M.5.1.2 Use appropriate <br> vocabulary. (292.01.c) | 3.M.5.1.2 A <br> Recognize appropriate vocabulary. |  |  |

Standard 5: Data Analysis, Probability, and Statistics - Students in Grade 3 interpret information found in tables, bar graphs, and charts. Students collect, organize, and display data in tables, charts, or bar graphs in order to answer a question.

Extended Standard 5: Students in Grade 3 identify information found in tables, bar graphs, or charts. Students collect, organize, and display data in simple formats in order to answer a question.

| Topic | Gr | Goal | Objective | Essence | Extended Content Indicators |
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|  | 3.M.5.2 | Goal 5.2 Collect, organize, <br> and display data. | 3.M.5.2.1 Collect, organize, <br> and display data in tables, <br> charts, or bar graphs in order <br> to answer a question. <br> (292.02.a) | 3.M.5.2.1.A <br> Organize and display data in bar graphs or circle graphs in order to answer a question. |  |

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Students collect, organize, and display data in tables, charts, or bar graphs in order to answer a question.

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|  | $3 . M .5 .3$ | Goal 5.3: Apply simple <br> statistical measurements. | No objectives at this grade <br> level. | No objectives at this grade level. |  |
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Extended Standard 5: Students in Grade 3 identify information found in tables, bar graphs, or charts. Students collect, organize, and display data in simple formats in order to answer a question.

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|  | 3.M.5.4 | Goal 5.4. Understand basic <br> concepts of probability. | No objectives at this grade <br> level. | No objectives at this grade level. |  |
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| Topic | Gr | Goal | Objective | Essence | Extended Content Indicators |
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|  | $3 . M .5 .5$ | Goal 5.5: Make predictions or <br> decisions based on data. | 3.M.5.5.1 Make predictions <br> based on data. | 3.M.5.5.1A <br> Make predictions based on data. |  |

