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| **opportunity for growth** | **performance meets standard of learning (Grade 6)** | **advanced** |
|  | Big Ideas and Content at a glance* Numbers can be decomposed into parts and wholes
* Computational fluency with whole numbers and decimals
* Linear relationships can be represented using expressions and graphs and can be used to form generalizations
* Volume, area, perimeter, angles: describe, measure, compare
* Experimental probability can be used to predict theoretical probability and to compare and interpret
* small to large numbers (thousandths to billions)
* multiplication and division facts to 100
* order of operations with whole numbers
* factors & multiples: GCF, LCM
* improper fractions and mixed numbers
* ratios (introduction)
* whole-number percents and percentage discounts
* multiplication and division of decimals
* increasing & decreasing patterns (expressions, tables, graphs)
* one-step equations (whole-number coefficients & solutions)
* perimeter of complex shapes
* area: triangles/parallelograms/trapezoids
* angle measurement & classification
* concept of volume (referents, capacity)
* triangles (classify)
* combinations of transformations
* line graphs (data set)
* single-outcome probability: theoretical and experimental
* financial literacy - simple budgeting & consumer math
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| Learning: Takes Time and Patience, Experiential, Embedded in Story, . . . |
|  | Reasoning and Analysis* Logic and Patterns – observe, predict, generalize
* Estimation
* Mental math strategies
* Model math concepts &/or ‘mathematically model’
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|  | Understanding and Solving* Strategies (incorporate, develop)
* Use mathematical concepts
* Problem Solving (unfamiliar, inquiry - connect to place, story, culture, First Peoples)
* Visualizing
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|  | Communicating and Representing* Mathematical justifications (written &/or spoken)
* Concrete, Pictorial, Symbolic
* Contribute to mathematical discussions
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|  | Connecting and Reflecting* Reflect upon mathematical thinking (self, others)
* Pose new problems/extensions
* Connect to other math, other subjects, and world around us, First Peoples
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