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| **opportunity for growth** | **performance meets standard of learning (Grade 9)** | **advanced** |
|  | Big Ideas and Content at a glance* Numbers represent quantities: can decompose to smaller parts
* One-to-one correspondence and a sense of 5 and 10 are essential for fluency with numbers
* Repeating elements in patterns can be identified
* Objects have attributes: can describe, measure & compare
* Familiar events can be described as likely/unlikely & compared
* operations with rational numbers (addition, subtraction, multiplication, division, and order of operations)
* exponents and exponent laws with whole-number exponents
* operations with polynomials, of degree less than or equal to 2
* 2-variable linear relations: graphing/interpolation/extrapolation
* multi-step one-variable linear equations
* spatial proportional reasoning
* statistics in society
* financial literacy — simple budgets and transactions
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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, world around us, First Peoples
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