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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 |  |
| 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’ |  |
|  | Understanding and Solving   * Strategies (incorporate, develop) * Use mathematical concepts * Problem Solving (unfamiliar, inquiry - connect to place, story, culture, First Peoples) * Visualizing |  |
|  | Communicating and Representing   * Mathematical justifications (written &/or spoken) * Concrete, Pictorial, Symbolic * Contribute to mathematical discussions |  |
|  | Connecting and Reflecting   * Reflect upon mathematical thinking (self, others) * Pose new problems/extensions * Connect to other math, other subjects, world around us, First Peoples |  |