|  |  |  |
| --- | --- | --- |
| **opportunity for growth** | **performance meets standard of learning (Grade 7)** | **advanced** |
|  | Big Ideas and Content at a glance   * Decimals, fractions & percents represent parts and wholes of #s * Computational fluency with integers and decimals * Linear relations can be used to make generalizations and can be represented in many connected ways * There is a constant ratio between the diameter and circumference of a circle * Circle graphs can be used to illustrate proportion of the whole * multiplication and division facts to 100 * operations with integers (addition, subtraction, multiplication, division, and order of operations) * operations with decimals (addition, subtraction, multiplication, division, and order of operations) * relationships between decimals, fractions, ratios, and percents * discrete linear relations, using expressions, tables, and graphs * two-step equations with whole-number coefficients, constants, and solutions * circumference and area of circles * volume of rectangular prisms & cylinders * Cartesian coordinates and graphing * combinations of transformations * circle graphs * experimental probability with two independent events * financial literacy – percentage calculations in context |  |
| 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, and world around us, First Peoples |  |