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| **opportunity for growth** | **performance meets standard of learning (Grade 4)** | **advanced** |
|  | Big Ideas and Content at a glance   * Fractions and decimals represent quantities * Computational Fluency requires analysis of patterns and relations in multiplication and division   Regular changes in patterns can be identified and represented   * Polygons are closed shapes with attributes that can be described, measured and compared * Analyzing and interpreting probability experiments develops an understanding of chance * Number concepts to 10 000 * Addition and subtraction facts to 20 * Add and subtract whole #s to 10 000 * Multiplication and division facts to 100 * Multiplication and division of 2 or 3 digit #s by 1 digit #s * Ordering and comparing fractions * decimals to hundredths * addition/subtraction: decimals to 100ths * financial literacy - monetary calculations and making simple financial decisions * increasing/ decreasing patterns using tables and charts * algebraic relationships among quantities * one step equations with an unknown number (all operations) * how to tell time: analog and digital clocks (12 and 24 hour) * regular and irregular polygons * perimeter of regular and irregular shapes * line symmetry * one-to-one correspondence and many-to-one correspondence using bar graphs and pictographs * probability experiments |  |
| Learning: Takes Time and Patience, Experiential, Embedded in Story, . . . | | |
|  | Reasoning and Analysis   * Explore and make connections * 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 |  |