

Math

Syllabus: Grade 4

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| <p>Rationale for Learning Mathematics</p> <p>*Gain an appreciation for the important role mathematics plays in modern society.</p> <p>*Develop enough mathematical literacy to enable students to function at their maximum potential in a modern economy.</p> <p>*Develop the ability to estimate solutions, compute accurately, assess the reasonableness of their answers, and reason logically and critically.</p> | <p>Class Rules:</p> <ol style="list-style-type: none"> 1. Arrive on time, prepared, and ready to learn 2. Respect yourself and others 3. Make friends and be thoughtful 4. Take turns speaking and listening 5. Say Please and Thank you 6. Try your best! |
| <p>Math Strands</p> <p>The Palau mathematics curriculum framework is organized under the following 5 STRANDS, or content themes, that run across grades 1 through 12.</p> <ol style="list-style-type: none"> 1. Number Sense, Properties, and Operations 2. Unit Systems and Measurement 3. Spatial Sense and Geometry 4. Data, Statistical Analysis, and Probability 5. Patterns, Functions, and Algebra | <p>Math Resources and Materials</p> <p>Grade 4 Primary Math Textbooks (Singapore math textbooks aligned to U.S) Volume A & B</p> <p>Computation of Letter Grade:</p> <ul style="list-style-type: none"> • 90%-100%. A • 80%-89%..... B • 70%-79%..... C • 65%-69%. D • 0%-64%..... F <p>Methods of Evaluation:</p> <p>Quarterly grade for Grade 1-8 is based on :</p> <p>A. 85% = Class Average</p> <p>* Class Average = 70% Test + 30% Other Components such as quizzes, group works, classwork, homework, self-assessments, experiments/demonstrations/research/project</p> <p>B. 15% = Quarter Exam</p> |

| Strand/Topics | Grade 4 |
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| Number Sense, Properties, and Operations | <ul style="list-style-type: none"> • Read, write, and order the counting numbers from 1-100,000 • Use the symbols for comparing two numbers or quantities: Greater than $>$, less than $<$, or equal to $=$. • Apply strategies of mental math in problems solving tasks. (Add, subtract, multiply, and divide thousands and ten thousands using mental strategies) • Round off whole numbers to the nearest 10 or 100. • Estimate a sum and difference, choosing level of accuracy based on the context of the problem. • Understand rules of divisibility of 2, 3, 5, 6, 9, and 10 and relate to multiples. • Find all the factors and common factors of two whole numbers. • Find the common multiples of two or more whole numbers. • Multiply a 4-digit number by a 1-digit number. • Estimate the product and quotient. • Divide by 10. • Use the bar models or diagram to demonstrate why did you derive the solution. • Generate equivalent fractions. • Add, subtract, and multiply fractions. • Conversion of improper fractions to mixed number and vice versa. • Read and write decimals to the tenths, hundredths, and thousandths place and decimals that are greater than 1. • Round decimals, and apply the four operations $(+, -, \times, \div)$ on decimals. |
| Unit Systems and Measurement | <ul style="list-style-type: none"> • Solve word problems that involve measurement. • Convert measuring units such as inches to feet, centimeters to meters and vice versa. • Apply the perimeter and area formulas for rectangles in real world and mathematical problems. |
| Spatial Sense and Geometry | <ul style="list-style-type: none"> • Recognize line symmetries in 2 dimensional figures and plane symmetries in 3 dimensional shapes. • Identify figures with line symmetry, and complete a symmetric figure. • Determine the number of unit cubes used to make a solid. • Visualize new solids formed by adding and subtracting cubes. • Find the volume of a solid in cubic units and cubic centimeters or inches. • Use formula to find the volume of cuboids (rectangular prisms) or boxes. • Estimate and measure angles using protractor. |
| Data, Statistical Analysis, and Probability | <ul style="list-style-type: none"> • Interpret data from tallies or frequency charts, simple pictographs and bar graphs. |