Alberta Education 4-6
Mathematics Program of Studies Overview

Adapted from My Child's Learning: A Parent Resource

Grade 4

Learning about fractions and decimals. Your child will learn about and compare numbers to 10,000, and add and subtract decimal numbers to hundredths. They will understand and recall multiplication and division facts to 7 x 7, and multiply and divide by 1-digit numbers. Your child will compare and order fractions, solve one-step equations, and find the area of 2-D shapes.

Grade 5

Using mathematics to solve problems. Your child will understand, recall and apply multiplication and related division facts to 9 x 9. They will multiply 2-digit by 2-digit numbers, and divide 3-digit numbers by 1-digit numbers. Your child will compare fractions with like and unlike denominators, and describe, compare, add and subtract decimal numbers (to thousandths). They will also write and solve one-step equations to solve problems with whole number solutions, and learn about probability.

Grade 6

Operations with numbers. Your child will convert between improper fractions and mixed numbers, learn about and use integers, and understand the meaning of ratio and percent. They will multiply and divide decimal numbers, and perform operations with whole numbers using order of operations. Your child will use variables, graphs and tables to show number patterns.

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Alberta Education 4-6
Mathematics Program of Studies Detailed Overview

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Grade 4

Show, describe and compare quantities to 10,000. **Add and subtract whole numbers with answers to 10,000.** Multiply 2- or 3-digit numbers by 1-digit numbers. **Divide 2-digit numbers by 1-digit numbers.** Understand and apply strategies for multiplication and related division facts to 9 x 9 and recall multiplication and related division facts to 7 x 7. **Add and subtract whole numbers and decimal numbers.** Compare and order fractions. **Relate decimals to fractions and vice versa.** Solve one-step equations. **Read and record time.** Connect numbers and shapes to everyday life. **Understand and describe line symmetry and congruency.** Determine the area of regular and irregular shapes. **Describe and construct 3-D objects.** Explain patterns in charts and tables. **Construct and interpret pictographs and bar graphs.**

Grade 5

Show and describe numbers to 1,000,000. **Apply mental mathematics and estimation strategies.** Solve problems involving whole numbers and decimals. **Describe and compare fractions and decimals.** Create equivalent fractions. **Describe a pattern in order to make predictions.** Identify 90° angles. **Determine the relationship between area and perimeter in rectangles.** Measure length using cm and m, volume using cm3/m3, and capacity using ml/L. **Write and solve one-step equations to solve problems.** Describe and perform reflections, rotations and slides of 2-D shapes. **Identify and sort 4-sided shapes.** Construct and interpret double bar graphs. **Use experimental or theoretical probability to solve problems.**

Grade 6

Understand and use place value. **Determine factors and multiples to solve problems.** Describe how decimals, fractions, ratios and percents are related. **Use graphs and tables to show number patterns and solve problems.** Write and solve equations that represent problems or patterns. **Classify, measure and draw angles and triangles.** Generalize the sum of interior angles for triangles and quadrilaterals. **Construct and compare triangles.** Describe and compare the angles and sides of regular and irregular polygons. **Develop and apply formulas for the perimeter of polygons, the area of rectangles and the volume of right rectangular prisms.** Plot whole number points on a grid. **Perform combinations of transformations on a 2-D shape.** Use line graphs to present and interpret information. **Collect and analyze data to solve problems.** Understand the differences between experimental and theoretical probability.

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