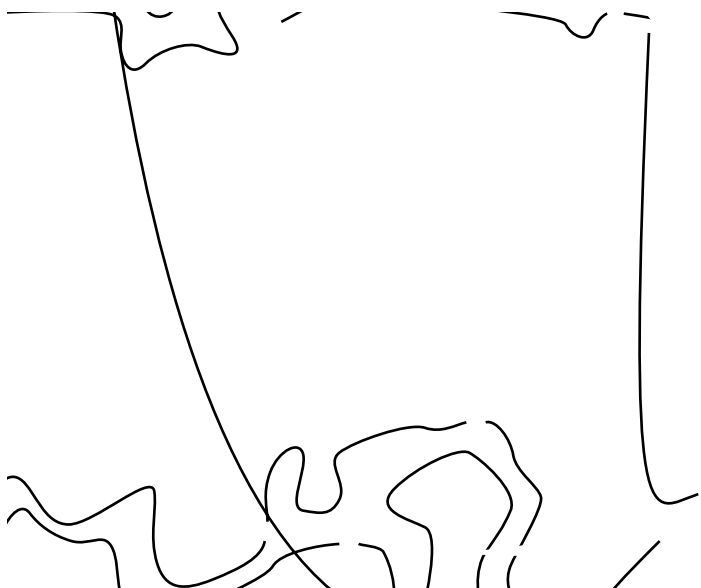




*What your child will be
learning in grade six
mathematics*

In grade six, your child will learn the concept of rates and ratios and use these tools to solve word problems. Students will work on quickly and accurately dividing multi-digit whole numbers and adding, subtracting, multiplying, and dividing multi-digit decimals. Students will extend their previous work with fractions and decimals to understand the concept of rational numbers—any number that can be made by dividing one integer by another, such as $\frac{1}{2}$, 0.75, or 2. Students will also learn how to write and solve equations—mathematical statements using symbols, such as $20+x = 35$ —and apply these skills in solving multi-step word problems. Activities in these areas will include:

- Understanding and applying the concepts of ratios and unit rates, and using the correct language to describe them (for example, the ratio of wings to beaks in a flock of birds is 2 to 1, because for every 2 wings there is 1 beak)
 - Building on knowledge of multiplication and division to divide fractions by fractions
 - Understanding that positive and negative numbers are located on opposite sides of 0 on a number line
 - Using pairs of numbers, including negative numbers, as coordinates for locating or placing a point on a graph
 - Writing and determining the value of expressions with whole-number exponents (such as $15+3$)
 - Identifying and writing equivalent mathematical expressions by applying the properties of operations. For example, recognizing that $2(3+x)$ is the same as $6+2x$
 - Understanding that solving an equation such as $2+x = 12$ means answering the question, “What number added to 2 equals 12?”
 - Representing and analyzing the relationships between independent and dependent variables
 - Solving problems involving area and volume
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