

Dear Parent,



We're excited to have your child in Second Grade at Whitmore Lake Elementary School.

This is a very important year in your child's life, and we're pleased to be part of it.

At school, we're building on the skills that your child has already learned and we're introducing new ones. See this side of the brochure for details about what we're doing this year in Mathematics.

At home, your child can practice the skills we're learning at school. See the other side of this brochure for easy things that you can do to encourage that practice.

By working together, we can make sure that your child acquires the skills he or she needs to be successful in school and life.

We look forward to working with you and your child this year. When you have questions, please feel free to contact us at 449-2051.

Sincerely,
The Second Grade Teachers

In every grade, we teach Mathematics skills that will help students:

Numbers and Operations

- Develop number concepts and skills, from counting, to paper and pencil calculations.
- Estimate.
- Use calculators and computers when appropriate.
- Solve problems using basic calculations.

Algebra

- Explore and record patterns.
- Represent patterns and relationships using tables, graphs and algebraic symbols.
- Solve problems by representing patterns and relationships using tables, graphs and algebraic symbols.

Measurement

- Use the correct measurement tools and units to accurately measure and describe their world.

Geometry

- Explore and identify one, two and three-dimensional geometric shapes.
- Describe and classify one, two and three-dimensional geometric shapes.
- Construct one, two and three-dimensional geometric shapes.
- Use geometry knowledge to solve problems.

Data and Probability

- Collect, organize data in charts and graphs.
- Interpret data represented in charts, graphs.
- Collect, organize, and interpret data to solve problems, show relationships and make predictions.

In Second Grade, we teach Mathematics skills that will help your child:

Numbers and Operations

- Count, write, and order whole numbers to 1,000.
- Count by 2's, 5's, and 10's from any number and by 3's and 4's from zero.
- Express numbers to 1,000 using place value, e.g., 137=one hundred, three tens, and seven ones.
- Add and subtract two numbers up to three digits each with no regrouping; add and subtract two numbers that may involve regrouping.
- Understand meaning of multiplication as counting the total number of objects in equal groups.
- Understand division as another way of expressing multiplication using fact families.
- Recognize, name, write, and represent fractions with denominators of 12 or less.
- Solve simple word problems using addition and subtraction.
- Estimate and calculate sums of 2 numbers with 3 digits without regrouping.
- Calculate mentally sums and differences involving three-digit numbers and ones; three-digit numbers and tens; three-digit numbers and hundreds.

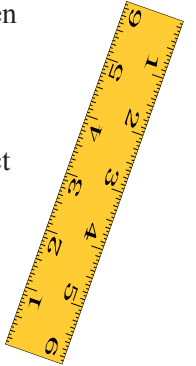


Algebra

- Use less than and greater than symbols.
- Find missing values (e.g., $20 + \underline{\quad} = 40$).
- Given a situation that involves addition or subtraction up to two digits each, or a situation involving groups of equal size, or of sharing equally, represent the problem with objects and/or pictures, and words; record using numbers and symbols; then solve.

Measurement

- Measure, add, and subtract lengths in meters, centimeters, inches, feet, and yards.
- Understand perimeter.
- Find area of a rectangle using unit squares.
- Tell time to five minutes; solve time problems; understand duration of time (e.g., in a half-hour it will be...).
- Read and write money using decimal notation. Solve money problems including making change.
- Mentally estimate time, distance, and weight.
- Read temperature in Fahrenheit.



- Use simple word problems involving length and money.

In Second Grade, we teach Mathematics skills that will help your child:

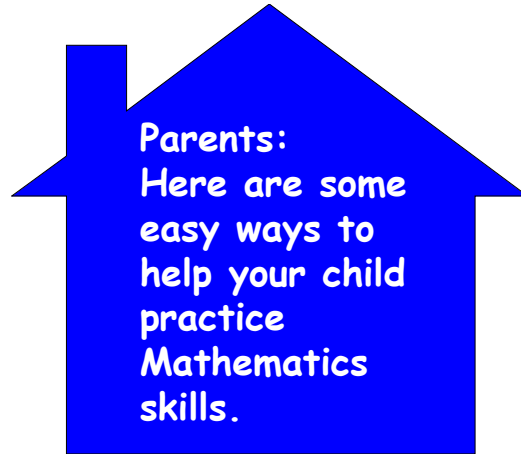
Geometry

- Identify, describe, and compare two and three-dimensional shapes.
- Classify familiar plane and solid shapes by common attributes (e.g., number of corners or sides).
- Recognize that shapes that have been slid, flipped, or turned, are the same shapes.
- Use simple coordinate systems (e.g., maps and grids).



Data and Probability

- Solve problems using information in pictographs.
- Interpret pictographs using scale factors of 2 and 3 (e.g., each * = 2 apples).



Numbers and Operations

- Use flashcards to master addition and subtraction math facts through 18.
- Have your child use multiplication and division to plan how much to buy (e.g., 10 people at the party and each needs 2 party favors; how many needed in all? Will a package of 20 favors be enough so that each person can have 2?)
- From magazines, cut pictures of whole pieces of food such as whole sandwiches, pies, or pizzas. Have your child cut the pictures into equal parts to show halves, thirds, or fourths.
- Calculate how much items will cost at a store.

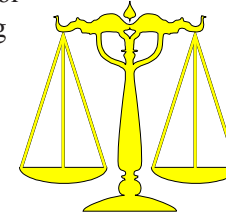


Algebra

Do simple problems such as $10 - ? = 8$.

Measurement

- Set out a ruler, yardstick, or scale, and ask your child to measure or weigh something using the correct tool.
- Practice counting money and making change.



Geometry

- A grocery store is filled with geometric shapes. Ask your child to find items that have circles for faces, items shaped like cones, and shapes that stack well.
- Try using graph paper to map out your child's room so that each square equals one step in a direction.

Data and Probability

- Sort objects like buttons and candy by color, type, or shape.
- Sort a small bag of M&Ms by color and place each color in a straight line. Ask your child: "Which color has the most? The least?"



Whitmore Lake Elementary School

In Second Grade, we're teaching your child important mathematics skills.

What are these skills?

How can you help your child practice them?

W ...exceptional,
personalized education

For more good ideas, ask your child's teacher, or contact:
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