

Dear Parent,



We're excited to have your child in Third 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 Third 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.

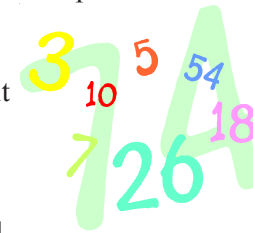
Data and Probability

- 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 Third Grade, we teach Mathematics skills that will help your child:

Numbers and Operations

- Read and write numbers to 10,000.
- Know the place value of a given digit in numbers up to 10,000.
- Skip count by 6's, 7's, 8's and 9's and relate skip counting to multiplication.
- Add and subtract numbers up to 1,000 with regrouping.
- Estimate sums and differences with 3 digit numbers.
- Know multiplication facts up to 10×10 .
- Use multiplication and division fact families (e.g. 3×4 , 4×3 , $12 \div 3$, and $12 \div 4$).
- Solve simple division problems with remainders (e.g., $13 \div 4 = 3 \text{ r } 1$).
- Use terms of math (e.g. sum, difference, product, quotient, addend, factor, numerator, denominator).
- Know that fractions represent equal parts of a whole or a group.
- Add and subtract fractions with equal denominators (e.g. $\frac{1}{4} + \frac{1}{4} + \frac{1}{4} = \frac{3}{4}$).
- Relate money to decimal fractions e.g. one tenth of a dollar is \$0.10.



Algebra

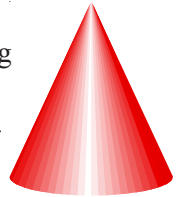
- Solve simple addition, subtraction, multiplication and division problems that have missing parts (e.g., $13 - \underline{\quad} = 12$, $3 \times \underline{\quad} = 15$).
- Use a variety of strategies to solve word problems (e.g., estimation, draw a picture, make a model, guess and check).

Measurement

- Tell time to the nearest minute.
- Know the order of the days of the week and of the months.
- Determine elapsed time using analog clocks and calendars.
- Know and use common measurement for length, weight, and capacity e.g. inch, foot, yard, ounces, pounds, cup, pint and how they relate (e.g., 12 inches = 1 foot).
- Read a thermometer to the nearest degree and know that 32°F and 0°C = freezing point of water and 212°F and 100°C = boiling point of water.

Geometry

- Identify these geometric objects: points, lines segments, lines, distance, perpendicular and parallel lines.
- Identify, describe and compare two-dimensional shapes (e.g., circle, rectangle, square, trapezoid).
- Build geometric shapes using other shapes such as two triangles making one square.
- Identify, describe and compare common solid geometric shapes (e.g., cube, cone, rectangular prism, sphere pyramid).
- Construct solid geometric shapes using cubes.



Data and Probability

- Read and interpret bar graphs.
- Use data tables to gather information.
- Construct simple bar graphs.
- Read scales on the axes of bar graphs and identify the range of the values on the horizontal and vertical axes.
- Use bar graphs to solve problems and to compare data.

Parents:
Here are some
easy ways to
help your child
practice
Mathematics
skills.

Numbers and Operations

- Have your child read numbers in newspapers, magazines, books, etc.
- Practice counting by 2's, 3's, 4's... through 10.
- Practice basic facts for adding and subtracting, multiplication and division orally or with flashcards.
- Practice fractions by measuring when cooking and doubling or halving recipes.
- Practice fractions by measuring to the nearest $\frac{1}{4}$ inch.
- Give your child an allowance using coins that can be counted and traded for larger coins or bills.
- Use computer games such as Treasure Math Storm and Money Town or find websites to practice math skills.



Algebra

- Use flash cards for basic facts.
- Ask questions when you travel such as "Grandma's house is 25 miles from home. We have already traveled 18 miles. How many more miles do we have to go?"; "It is 2:30 now. We will get to the mall at 3:10. How much longer will it take us to get there?"



Measurement

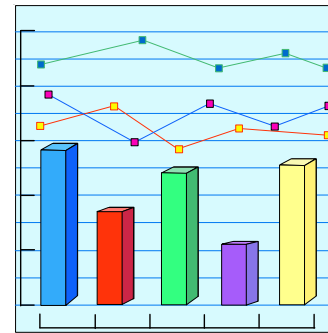
- Practice telling time on a clock with hands.
- Give your child a watch to wear and ask him/her to tell you what time it is, what time it will be in 20 minutes, 1 hour, etc.
- Use the calendar to record upcoming events and refer to it often.
- Help your child learn the order of the months.
- Cook with your child and use measuring tools.
- Use measuring tools to make simple projects (e.g., a bird house, a quilt).
- Hang a thermometer outside and refer to it.
- Help your child make clothing choices based on temperature.

Geometry

- Help your child to notice the shapes of things and use words such as triangle, rectangle, parallel lines, cone, sphere.
- Use building blocks such as Legos or K'nex .
- Go to art museums and galleries and look for lines and shapes in classic and modern art.

Data and Probability

- Show your child graphs and tables in newspapers and magazines and discuss the information they are presenting.
- Complete a Science Fair project that includes gathering data and recording it on a bar graph.

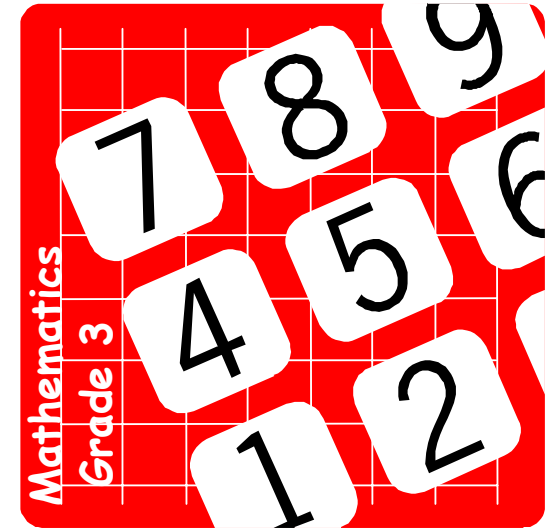


...exceptional,
personalized education

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

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(734) 449-2051 • <http://www.wlps.net>



Whitmore Lake Elementary School

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

What are these skills?

*How can you help your child
practice them?*