

Summer Math Packet Students Entering into 5th Grade

Our fourth graders had a busy year learning new math skills. **Mastery of all these skills is extremely important in order to develop a solid math foundation.** The fifth grade math program will **add onto these fourth grade skills**, so any time spent learning or reinforcing these concepts will be very beneficial for your child. Each year builds upon the previous year's skills in math. Any areas your child has difficulty, you may want to give them additional practice. **Student mastery of the basic math skills is as important to success in future mathematical procedures and reasoning as learning the alphabet is to reading and writing.**

Knowing math facts **FLUENTLY** is essential for fifth grade success. Included are a Products Table and Fact Power Table. Your child should practice daily in order to increase fluency with these.

Excellent websites for fun learning and reinforcement of math skills:

www.wildmath.com Select "Play the game". Select addition, subtraction or multiplication and grade. You can race to beat your time.

www.aplusmath.com Go under "Flashcards" or "Game Room" on the left side of the screen. They can practice adding, subtracting and multiplying. Very important to know the addition, subtraction and multiplication facts from memorization or within a couple seconds.

www.mathisfun.com Select numbers then Math Trainer for adding, subtracting and multiplication. Or at the home screen select games and pick a game to play.

www.aaamath.com At the top pick "Fourth" or "Fifth" for a challenge. Choose any of the activities like multiplication then select "play" option toward the top of the screen. 20 Questions and Countdown games are good ones.

www.funbrain.com Lots of fun games to choose from.

<https://www.khanacademy.org> provides guided instruction on all math concepts.

Have a great Summer! We look forward to seeing you in September! ☺

GRADE LEVEL EXPECTATIONS IN MATHEMATICS

When entering fifth grade this is what is expected that your child should already know.

1. Read and write numbers to 1,000,000.
2. Know place value to 1,000,000. Example: 25,068 is 2 ten thousand, 5 thousand, 0 hundreds, 6 tens & 8 ones. Use place value understanding to round to any place.
3. List the first twelve multiples of a given one-digit whole number.
4. Know some numbers are called prime numbers. Some prime numbers are 2, 3, 5, 7 and 11; have exactly two factors: one and itself.
5. Add, subtract and multiply whole numbers **fluently**. Solve multistep word problems.
6. Divide numbers up to four-digits by one-digit numbers and by 10.
7. Use the relationship between multiplication and division to check results.
8. Read, write, interpret, and compare decimals up to two decimal places (hundredths).
9. Convert decimals in tenths and hundredths to fraction and decimal forms.
10. Write improper fractions as mixed numbers and mixed numbers as improper fractions.
11. Compare and order fractions.
12. Add and subtract fractions.
13. Find the value of an unknown in equations such as $\frac{1}{8} + x = \frac{5}{8}$.
14. Measure area and perimeter.
15. Identify and draw perpendicular, parallel, and intersecting lines.
16. Find the side of a square or rectangle given its perimeter or area and possibly one side.
17. Identify and classify basic geometric shapes, including isosceles, equilateral and right triangles.
18. Identify and count faces, edges, and vertices of basic three-dimensional solids including cubes, rectangular prisms and pyramids.
19. Recognize plane figures that have line symmetry.
20. Construct tables and bar graphs from given data.