

WHY IS IT IMPORTANT FOR MY CHILD TO MASTER BASIC MATH FACTS?



1. Although correct answers can be obtained by using the counting fingers method, it takes too much time and effort away from higher-level math concepts.
2. Students who are slower at recalling math facts are less likely to learn more complex math problems.
3. Students who do not know their basic math facts with automaticity are far more likely to make errors in multi-step math problems.
4. Students who master their facts have an easier time learning and understanding fractions and algebraic concepts.
5. Mastery of basic facts leads to better estimation skills as well as improved number sense.

For More Fact Fluency Practice/Info:

*Worksheets/Printable Flash Cards

www.apples4theteacher.com

www.dadsworksheets.com

**Fact Fluency Web Sites

www.mathfactcafe.com

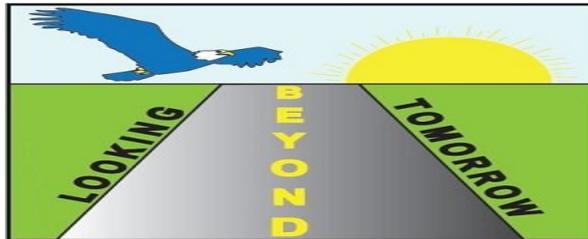
www.playkidsgames.com

<http://resources.oswego.org/games/mathmagician/cathymath.html>

***Rocket Math Web Site

www.rocketmath.com

Nazareth Area School District



***Focus on Learning**

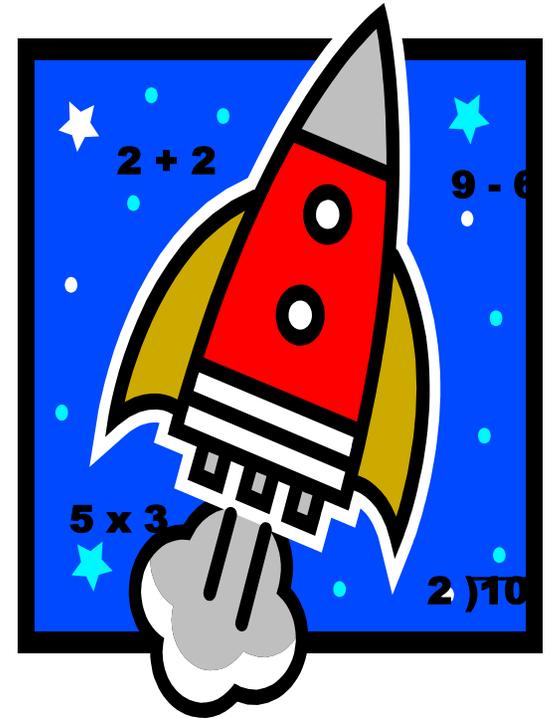
***Build Character**

***Shape the Future**

This brochure was designed by the
Elementary Math Specialists in the
Nazareth Area School District.

NAZARETH AREA
SCHOOL DISTRICT'S

ROCKET MATH PROGRAM



ROCKET MATH IS A
MATH FACT MASTERY
PROGRAM FROM R & D
INSTRUCTIONAL
SOLUTIONS

WHAT IS ROCKET MATH?



- Rocket Math is a daily program that combines timed oral and written math facts practice for *gradual mastery of facts*.
- Addition facts to $9 + 9$, subtraction facts to $18 - 9$, multiplication facts to 9×9 , and division facts to $81 \div 9$ are included in the program.
- Rocket Math is designed to meet *each student's individual needs*, and it allows your child to progress at his/her own pace.
- Daily and weekly progress is charted as students work towards "automaticity" of facts.
- Students remain engaged and motivated as they build on their successes.
- Your child's teacher will provide you with more information about how Rocket Math works in his/her

How can I help my child learn/practice facts at home?



Here are a few things that you can do with your child at home to reinforce Rocket Math.

*Practice Like in School

Use the Rocket Math practice sheets that your child brings home and "partner" up with him/her to help them practice. He/She should be able to tell you how it is done....

*Flash Cards

Use flash cards to practice *known facts*. Students can use note cards to create their own flash cards as they begin to learn new facts. They can then use these cards to practice.

*Computer Programs and Games

There are many great Web sites & computer Games to practice Basic facts. Two good Web sites are "Math Magician" and "Math Fact Café".



What Math Facts Will My Child Be Responsible For?

The following chart details which facts each grade level will be working on throughout the school year as well as the expected "mastery" of these facts.

$$\begin{array}{r} 5 \\ + 5 \\ \hline \end{array} \quad \begin{array}{c} \text{Illustration of a colorful, swirling shape with numbers and symbols like } \$, \%, \text{ and } \times \end{array} \quad \begin{array}{r} 7 \\ \times 3 \\ \hline \end{array}$$

Grade Level	Operation(s) Practiced To Mastery	Operation(s) Introduced After Mastery
Grade 1	Addition	Subtraction
Grade 2	Addition	Subtraction Multiplication
Grade 3	Multiplication	Division Addition Subtraction