



## Basic Facts Fluency

### **Basic Facts:**

It is essential that elementary students master basic facts. Basic facts include operations with addition, subtraction, multiplication, and division. Fact fluency means that a child can give a quick response (in about 3 seconds). Our goal should be that students can use a method to allow them to get the right answer, to do so reasonably fast, and be able to do this repeatedly (National Council of Teachers of Mathematics, 2007). The research on basic fact fluency has shown that students' ability to learn higher levels of mathematics is directly related to their ability to perform basic math processes, such as basic facts (Hasselbring, Goin, & Bransford, 1988). Students must have a conceptual understanding of basic facts through the use of strategies, exploration, and experience with operations in order to learn these basic facts.

### **Implications:**

A Basic Facts Program will be implemented in October which will provide instruction, practice and assessment that will be individualized for each student.

Grade Level Basic Facts expectations are:

1<sup>st</sup> Grade: Addition through 20

2<sup>nd</sup> Grade: Addition and Subtraction through 20

3<sup>rd</sup> Grade: Multiplication through the 9 tables

4<sup>th</sup> Grade: Multiplication and Division through the 9 tables

5<sup>th</sup> & 6<sup>th</sup> Grade: Maintaining fluency with all basic facts with the emphasis on multiplication and division

Basic Fact Inventory scores will not be used for placement purposes. The information will be shared with parents on progress reports because basic fact fluency is a vital component for students' future success in mathematics. A suggested list of resources to help can be found on the back.



*Owen J. Roberts School District*

*Inspiring Each Student for Success Today and Greatness Tomorrow*

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## On-line Games

Math Magician Games-- <http://resources.oswego.org/games/mathmagician/cathymath.html>

Math Mastery's Cyber Challenge-- <http://www.mathmastery.com/cyberchallenge/index.html>

Math Baseball-- <http://www.funbrain.com/math/index.html>

AAA Math-- <http://www.aaamath.com/>

## Fact Practice

Quia Concentration-- <http://www.quia.com/jg/387225.html>

A+ Math's Concentration Game—

[http://www.aplusmath.com/Games/Concentration/Multiplication\\_Concentration.html](http://www.aplusmath.com/Games/Concentration/Multiplication_Concentration.html)

Multiflyer-- [http://www.brainormous.com/online/loader\\_multiflyer.html](http://www.brainormous.com/online/loader_multiflyer.html)

Mr. Taylor's Multiplication Facts Drills-- <http://www.geocities.com/multiplicationfacts/>

Math Flash Cards-- <http://www.thegreatmartinicompany.com/>

Division Memory-- [http://www.numbernut.com/basic/activities/div\\_mem20\\_fives.shtml](http://www.numbernut.com/basic/activities/div_mem20_fives.shtml)

Aquatic Speedway-- <http://www.multiplication.com/flashgames/aquaticsspeedway.htm>

Math Fact Café-- <http://www.mathfactcafe.com/>