



Basic Fact 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:

Basic Fact inventories will be administered in September/October to establish a baseline and before the end of each marking period.

Grade Level Basic Facts expectations are:

- 1st Grade: Addition and Subtraction through 10
- 2nd Grade: Addition and Subtraction through 20
- 3rd Grade: Multiplication and Division through the 9 tables
- 4th Grade: Multiplication and Division through the 12 tables
- 5th Grade: Maintaining fluency with all basic facts

Basic Fact Inventory scores will not be used for placement purposes or to determine students' numerical grades. The information will be shared with parents on the report card 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.



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

Multiflyer-- 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

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

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