

# Supporting Student Fact Fluency

October 2008

## Home Support for Building Math Fluency

Math is an important subject for our students. One component of our program is supporting students to become proficient with basic math facts. Teachers use a variety of strategies to assist students in memorizing the basic facts for their grade level. Our math program, *Everyday Mathematics*, has provided us with a variety of math computation games to support fact acquisition. These games will be used at school and can be played at home as well. We encourage you to take advantage of this resource by using these games on your home computer. To access the games go to [www.everydaymathonline.com](http://www.everydaymathonline.com) and click on Student Login. Your child's unique login information was sent home previously from your child's math teacher. Please contact your child's teacher if you need assistance.

At Open House teachers provided you with a set of triangular flash cards. Two math operations are included on each flash card. Addition and subtraction are represented together, as are multiplication and division. You simply cover one of the three numbers and ask your child for the missing number. If you are using the addition/subtraction cards, an example for the numbers 5, 7, 12 would be to cover the 12, and ask for the sum of  $5 + 7$ . Or you can cover the 7 and ask for the answer to  $12 - 5$ . Our goal is for students to recall the facts within three seconds. Please strive for 20 minutes of home practice with the math facts each week, using both the games and the flash cards.

## Administering the Facts Assessments

Teachers will follow the guidelines below in administering the fact assessments.

- Alternate the addition and subtraction tests (grades 1, 2, 3)
- Alternate the multiplication and division tests (grades 4, 5)
- Move students to the next level after passing one or two tests at current level (teacher judgment)
- Teachers in grades 2-5 begin instruction and assessment in September
- Teachers in grade 1 begin instruction and assessment after conferences in November

### Student Expectations

<b>Gr 1</b>	Recall addition and subtraction facts through sums to 12
<b>Gr 2</b>	Recall addition and subtraction facts through sums to 18
<b>Gr 3</b>	Maintain addition and subtraction facts through sums to 18 Recall multiplication and division facts for 0,1,2,3,5,10
<b>Gr 4</b>	Recall multiplication and division facts through the 12's
<b>Gr 5</b>	Maintain multiplication and division facts through the 12's

### FLUENCY

#### TESTING TIME

Gr 1 90 seconds


Gr 2 75 seconds

Gr 3 60 seconds ( + and - )

90 seconds ( x )

Gr 4 75 seconds

Gr 5 60 seconds

	<b>Proficiency Level</b>
	2 errors = 90% accuracy rate
	<b>90% meets standard</b>
	Students proceed to the next level