

Supporting Student Fact Fluency

November 2010

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. Teachers are also using, *The Book of Facts*, to provide students with a variety of strategies for building fact fluency. There are online resources linked to our Learning Links page on the Tahoma website and we encourage you to use these resources at home to help boost your child's fluency. Go to www.tahoma.wednet.edu/studentlearning/. Click on Learning Links and then click on math.

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 3, 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

Gr 1	Recall addition and subtraction facts through sums to 12
Gr 2	Recall addition and subtraction facts through sums to 18
Gr 3	Maintain addition and subtraction facts through sums to 18 Recall multiplication and division facts for 0,1,2,3,5,10
Gr 4	Recall multiplication and division facts through the 12's
Gr 5	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 and ÷)
Gr 4	75 seconds
Gr 5	60 seconds



Proficiency Level

2 errors =
90% accuracy rate

90% meets standard

Students proceed to the next level