

## Information on Quantiles for Parents

### **The Quantile Framework<sup>®</sup> for Mathematics**

The Quantile Framework measures mathematics achievement and the difficulty of mathematical skills and problems on the same, developmental scale. Quantile<sup>®</sup> measures inform instruction by identifying the skills a student has learned, those that require instruction, and new skills the student is ready to learn. Quantiles enable educators to forecast understanding, target instruction and monitor growth. The Quantile Framework ranges from 0Q and below to above 1700Q, and includes content taught in kindergarten through twelfth grade.

Your child's Quantile measure is linked to his or her mathematics score from a standardized assessment and is one indicator of his or her mathematical ability. The Quantile measure is included on the confidential student report.

Quantile measures enable you to be involved in your child's mathematics development. Using Quantiles, you can identify the skills your child has learned, as well as the skills he or she is likely to encounter next in school and may require extra help with. Your child should already have learned the skills below his or her Quantile measure.

Quantile measures do not translate specifically to grade levels. Within any classroom, students will have varying mathematical abilities. Quantiles help educators and parents track student growth in mathematics over time, regardless of grade level.

### **Expectations in Mathematics**

Your child's Quantile measure provides you with additional information about his or her progress in mathematics. Because mathematical skills build one upon the other, continuous practice is key to your child's academic success. You should encourage your child to think mathematically in school and at home. Challenging him or her to engage in activities which require mathematical thinking and providing help when necessary will support your child's computation and problem-solving skills.

Once you know your child's Quantile measure, you can find additional instructional activities at his or her "readiness" level at [www.Quantiles.com](http://www.Quantiles.com).

### **Mathematics Activities**

You can help to advance your child's mathematical development by challenging his or her level of

understanding of numeration, measurement, algebra, geometry, and data analysis by doing the following:

### **Increase Your Child's Exposure to Music**

Research shows a positive effect between early and continuous exposure to musical development and mathematical achievement. Music fosters flexible ways of thinking, which is a powerful problem-solving tool.

### **Use Math Vocabulary in Everyday Events**

Point out mathematical concepts in everyday life and help your child to use vocabulary that reinforces them. Start with simple examples, such as using a cereal box to demonstrate units of measurement and volume. At the grocery store, discuss the graphs and charts found there, or the measurement abbreviations on packages (i.e., lb. for pounds). Open a bank account for your child to help teach him or her how to make connections to positive and negative numbers, as well as basic skills such as counting, sorting and classifying money.

### **Use the Car as a Journey in Mental Math**

Car time can be learning time. For example, call out coin values for your child to add in his or her head; count, sort and classify objects; or work on the basic facts that will strengthen his or her computation skills. Both of you will have a wonderful time exploring fun, mathematical activities that you can do together, without relying on formal mathematics instruction.

### **Cooking is All About Math**

You and your child can bake or prepare dinner—all with mathematics. He or she can help read the recipe, which connects to mathematics vocabulary. Or you can divide your recipe in half and ask your child to figure out the correct proportions. You can also talk about conversions; for example, how many cups in a pint? Or you can have your child set the table, using multiplication to figure out how many utensils in all or in each place setting. Mathematics mastery requires your child to apply skills to everyday life. Cooking is an ideal way to do this!

### **Form a Close Relationship with the Teacher**

In addition to having a positive attitude about mathematics at home, let your child's teachers know that you support them. Ask what specific areas of the mathematics curriculum your child can focus on at home and what vocabulary would help to reinforce these concepts. You can use this information to connect mathematics to everyday situations and to discuss with your child what he or she is learning in mathematics.

For more information and activities to help your child, visit [www.Quantiles.com](http://www.Quantiles.com).

MetaMetrics, Quantile, Quantile Framework and the Quantile symbol are trademarks or U.S. registered trademarks of MetaMetrics, Inc. The names of other companies and products mentioned herein may be the trademarks of their respective owners. © 2007 MetaMetrics, Inc. All rights reserved.

