



## Math Inventory 3.0 (MI) Overview for Parents

### What is the Math Inventory (MI)?

The Math Inventory (MI) is a computer-adaptive screener that measures students' readiness for math instruction. MI tracks progress from kindergarten through Algebra II. Cobb County School District screens all students in grades K-9 three times per school year to assist teachers with personalizing instruction for their students. The Math Inventory reports a Quantile measure for each student. Starting with the 2018-2019 school year, Cobb County School District will be using the Math Inventory version 3.0 which is the newest version of the assessment. MI 3.0 has updated proficiency bands, so these MI scores should not be compared with previous versions of MI.

### What is a Quantile Measure?

Each student receives a Quantile measure after each screening. Quantile measures indicate the student's readiness for standards-based math instruction. The Quantile framework works like a thermometer, where students can score below zero as emerging mathematicians (EM) or above zero up to 1600Q. Performance bands are established for each grade level and assist with academic planning and analysis.

### What is the Quantile Framework for Math and how is it used?

Quantile measures are not only assigned to students, but are also assigned to each skill and concept in the Georgia Standards of Excellence. The Quantile Framework is a system that places the learner and the math task on the same scale to ensure that the instruction students receive aligns with their readiness to learn. Quantile scores contribute a data point to the bank of knowledge which teachers use to make informed instructional decisions.

### How can I support my child's growth in mathematics?

You can help your child by knowing his/her Quantile measure, discussing goals and progress with your child and your child's teacher, and using a variety of resources to provide math experiences at home. To learn more about Quantiles, please visit <https://www.quantiles.com/> for free access to a variety of mathematical resources, games, websites, videos and downloads, that are targeted to your child's mathematical readiness level by standard.

### MI v.3.0 End of Year Grade Level Proficiency Bands

Grade	Below Basic	Basic	Proficient	Advanced
K	EM244Q - EM75Q	EM74Q - 8Q	9Q - 117Q	118Q - 296Q
1	EM235Q - 15Q	16Q - 116Q	117Q - 232Q	233Q - 385Q
2	EM233Q - 141Q	142Q - 270Q	271Q - 382Q	383Q - 601Q
3	EM151Q - 276Q	277Q - 380Q	381Q - 545Q	546Q - 816Q
4	EM110Q - 389Q	390Q - 533Q	534Q - 629Q	630Q - 930Q
5	77Q - 539Q	540Q - 644Q	645Q - 771Q	772Q - 1046Q
6	125Q - 659Q	660Q - 784Q	785Q - 890Q	891Q - 1139Q
7	393Q - 752Q	753Q - 880Q	881Q - 970Q	971Q - 1142Q
8	422Q - 845Q	846Q - 1000Q	1001Q - 1089Q	1090Q - 1297Q
9	680Q - 977Q	978Q - 1132Q	1133Q - 1214Q	1215Q - 1460Q
10	705Q - 1003Q	1004Q - 1215Q	1216Q - 1248Q	1249Q - 1510Q
11-12	705Q - 1003Q	1004Q - 1215Q	1216Q - 1248Q	1249Q - 1510Q