



## Math Inventory (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.

### 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.

### End of Year Grade Level Proficiency Bands

Grade	<i>Below Basic</i>	<i>Basic</i>	<i>Proficient</i>	<i>Advanced</i>
K	EM400Q – EM190Q	EM185Q – 5Q	10Q – 175Q	180Q & Above
1	EM400Q – 60Q	65Q – 255Q	260Q – 450Q	455Q & Above
2	EM400Q – 205Q	210Q – 400Q	405Q – 600Q	605Q & Above
3	EM400Q – 425Q	430Q – 620Q	625Q – 850Q	855Q & Above
4	EM400Q – 540Q	545Q – 710Q	715Q – 950Q	955Q & Above
5	EM400Q – 640Q	645Q – 815Q	820Q – 1020Q	1025Q & Above
6	EM400Q – 700Q	705Q – 865Q	870Q – 1125Q	1130Q & Above
7	EM400Q – 770Q	775Q – 945Q	950Q – 1175Q	1180Q & Above
8	EM400Q – 850Q	855Q – 1025Q	1030Q – 1255Q	1260Q & Above
9	EM400Q – 940Q	945Q – 1135Q	1140Q – 1325Q	1330Q & Above
10	EM400Q – 1020Q	1025Q – 1215Q	1220Q – 1375Q	1380Q & Above
11	EM400Q – 1150Q	1155Q – 1345Q	1350Q – 1425Q	1430Q & Above
12	EM400Q – 1190Q	1195Q – 1385Q	1390Q – 1505Q	1510Q & Above