

# 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 for MI 3.1

| Grade | Below Basic  | Basic       | Proficient  | Advanced     |
|-------|--------------|-------------|-------------|--------------|
| K     | EM244 - EM75 | EM74 - 8    | 9 - 117     | 118 - 295+   |
| 1     | EM235 - 15   | 16 - 116    | 117 - 232   | 233 - 384+   |
| 2     | EM233 - 141  | 142 - 270   | 271 - 382   | 383 - 600+   |
| 3     | EM151 - 276  | 277 - 380   | 381 - 545   | 546 - 815+   |
| 4     | EM110 - 389  | 390 - 533   | 534 - 629   | 630 - 929+   |
| 5     | 77 - 539     | 540 - 644   | 645 - 771   | 772 - 1045+  |
| 6     | 125 - 659    | 660 - 784   | 785 - 890   | 891 - 1138+  |
| 7     | 393 - 752    | 753 - 880   | 881 - 970   | 971 - 1141+  |
| 8     | 422 - 845    | 846 - 1000  | 1001 - 1089 | 1090 - 1296+ |
| 9     | 680 - 977    | 978 - 1132  | 1133 - 1214 | 1215 - 1459+ |
| 10    | 705 - 1003   | 1004 - 1215 | 1216 - 1248 | 1249 - 1509+ |
| 11    | 705 - 1003   | 1004 - 1215 | 1216 - 1248 | 1249 - 1509+ |
| 12    | 705 - 1003   | 1004 - 1215 | 1216 - 1248 | 1249 - 1509+ |