Math Inventory 3.1 (MI 3.1)
Overview for Parents

2020-2021

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+