Non Standard Materials

- [Kenilworth's guide to Map Testing](#)
- [HMM Description](#)
- [Higher Math Guide (New Trier)](#)

Kenilworth's guide to Map Testing

MAP testing is used to provide a percentile based ranking of a students math ability.

Sections of the MAP test

There are 4 core areas depending on grade

- **2nd - 5th grade**:
  - Operations and Algebraic Thinking
  - Numbers and Operations
  - Measurement and Data
  - Geometry
- **6th Grade +**:
  - Operations and Algebraic Thinking:
  - The Real and Complex Number Systems:
  - Geometry
  - Statistics and Probability

What is the purpose of MAP testing?

The most common reason for parents to inquire about MAP testing is because they want to get into an advanced class in their school and MAP testing is one of three tools used to determine eligibility (along with grades and Teacher Recommendation). In Kenilworth the advanced classes start in 6th grade (include link to NEW trier math program). Generally teachers are looking for scores in the 90th percentile demonstrated over a couple of tests for about a year or longer.

Sample MAP scores

Math: Math K-12

Chart values (Student RIT, District Grade-Level Mean RIT, Norm Grade Level Mean RIT):

- FA22: 212, 201, 188
- WI23: 206, 207, 196
- SP23: 210, 213, 201
- FA23: 211, 211, 200
- WI24: 219, 217, 206
- SP24: 224, 222, 211

Legend: Student RIT | District Grade-Level Mean RIT | Norm Grade Level Mean RIT | Student RIT Projection
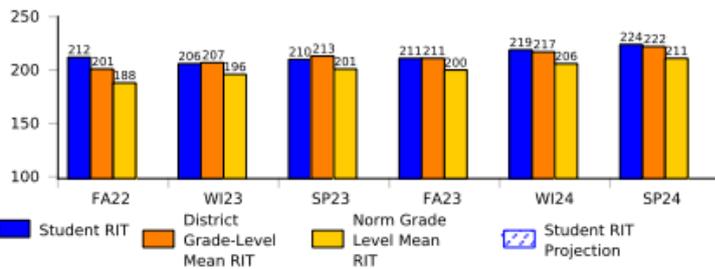
Term/Year	Grade	RIT Score (+/- Std Err)	RIT Growth	Growth Projection	Percentile Range
SP24	4	221-**224**-227	13	11	75-**81**-86
WI24	4	216-**219**-222			74-**81**-86
FA23	4	208-**211**-214			72-**79**-84
SP23	3	207-**210**-213	-2	11	66-**74**-81
WI23	3	203-**206**-209			68-**76**-83
FA22	3	209-**212**-215			93-**96**-98
SP22	2	205-**208**-211	15	13	88-**92**-95
WI22	2	195-**198**-201			80-**86**-90
FA21	2	190-**193**-196			88-**92**-95

Mathematics Goals Performance - Spring 2023-2024

Operations and Algebraic Thinking	HiAvg
Measurement and Data	HiAvg
Number and Operations	High
Geometry	HiAvg

What you will need to set up MAP testing:

- The Student's MAP Scores
- A Khan academy Teacher account
  - The ability to create accounts for students (Go here and Select teacher role)
  - A Khan academy class created for the purpose of MAP testing
- An iPad or computer when working on MAP testing.

Go to the Khan academy teacher dashboard (https://www.khanacademy.org/teacher/dashboard) and then click the dots next to your course listing. You can create a student account if you have properly enabled the teacher account for yourself and doing it in this way will enable you to assign scores and units without waiting for them to join the class.

Once you have added a student you can go here (MAP testing page:

https://www.khanacademy.org/math/mappers) to add a student's scores. Note: If your school doesn't provide exact scores try to use their RIT score and their performance in each category to approximate the correct range for the student.

Click here to learn how to setup student scores.

Guide to Setting up student scores: https://support.khanacademy.org/hc/en-us/articles/236355907-How-do-I-use-MAP-Recommended-Practice-Mappers-on-Khan-Academy

1. Scroll past the "You" section on the MAP Recommended Practice homepage and go to the next one, "**Your students.**"

Your students

Filter students by class ▾

2. Click on "**Filter students by class**" to open a dropdown menu and select a class.

Your students

Filter students by class ▾

Mr. O's Mappers Class

3. Enter your students' RIT scores following the same process as steps 1–5 above.

Your students

Dustin's superfun summer extravaganza ⌄

Enter MAP Test Scores for Jo

Fill in the lower score for each MAP Test Goal Performance Area.

Where do I find my students' scores? ⌄

Mathematics 2–5 ⌄

Operations and Algebraic Thinking	0 ⌃⌄
Numbers and Operations	0 ⌃⌄
Measurement and Data	0 ⌃⌄
Geometry	0 ⌃⌄

Show me the recommendations!

4. Once your students begin to work on their recommendations, you can visit our MAP Recommended Practice to see the progress they are making across topics.

MAP Test recommendations for Jo

0 of 6 done	Geometry 189-200
3 of 89 done	Measurement and Data 189-200
17 of 23 done	Numbers and Operations < 159
6 of 33 done	Operations and Algebra < 159

Enter new scores

5. You can also enter new scores for any student by clicking on "**Enter new scores.**"

MAP Test recommendations for **Jo**

0 of 6 done	Geometry 189-200
3 of 89 done	Measurement and Data 189-200
17 of 23 done	Numbers and Operations < 159
6 of 33 done	Operations and Algebra < 159

Enter new scores

Because this isn't designed as a typical Khan Academy course you will need to add the specific units that a student should work on. This ensures the specific material will be located in their mastery goals instead of their general practice in their class courses as you can see from the example below.

Example student page

MAP TESTING
My mastery goals

Active   Past

UNIT MASTERY

	MAP Recommended Practice **Operations and Algebra 229+**	Due on October 1st Current Goal ⓘ		0%

Class courses

MAP Recommended Practice   See all (55)

Geometry < 159   **Start**

Geometry 159-175

Geometry 176-188

To assign a units simply click on the unit recommendation from the MAP testing page and click assign in the top right. Select the class, student and due date and make sure to do this for all 4 units.

Once this has been done you will need to send the login credentials to the parent via email or make sure that the student is set up with a tablet to work on when they come in.

HMM Description

HMM Fundamental Skills

- Although this assessment is dubbed as "Fundamental", it isn't necessarily easier than the HMM assessments. Instead, it provides a preview to the other HMM assessments, like HMM Linear and HMM Quadratic.
- **Who should take this assessment?** Students with a history of struggling in Algebra 1 heading into Algebra 2. HMM Fundamentals provides a nice refresh and review of Algebra 1.

HMM Linear

- **Covers:** Function operations, composition of linear functions, piecewise, graphing piecewise, plotting inverse,
three equation systems, real-world applications of inequalities, linear programming.
- **Who should take this assessment?** Students with a history of struggling in Algebra 1 heading into Algebra 2. **If the student is willing in come into the center for a long period of time**, this assessment will work well to prepare them for Algebra 2.

HMM Quadratic

- **Covers:** Conjugates, imaginary numbers, interval notation, parts of a parabola, writing equations of parabolas,
quadratic inequalities, interpreting the vertex, quadratic modeling, quadratic problem solving.
- **Who should take this assessment?** Students with a history of struggling in Algebra 1 heading into Algebra 2. **If the student is willing in come into the center for a long period of time**, this assessment will work well to prepare them for Algebra 2.

> HMM Linear and HMM Quadratic should be used in conjunction if a student is willing to spend a sizable amount of time preparing for Algebra 2.

HMM Advanced I

- **Covers:** Rational exponents, simplifying radicals, function transformations, exponential graphs, sketching absolute
value, sketching square root, sketching rational functions, simplifying rational expressions, even and odd
functions, graphing circles, combined variation, polynomial division, function transformations,
exponential equations, exponential modeling.

- This assessment covers a respectable chunk of New Trier Algebra 2 3L curriculum. All concepts on HMM Advanced 1 should be covered by New Trier Algebra 2 3L curriculum, but NT may cover concepts not listed in HMM Advanced 1.
- **Who should take this assessment?** Any student that is willing to spend session time working on Mathnasium material during their Algebra 2 school year. This assessment will likely be used for first semester NT students.

HMM Advanced II

- **Covers:** Conic sections, complex numbers, logarithms, exponential equations and inequalities, radical equations
and inequalities, rational equations and inequalities, graphing rational equations, asymptotes, end
behavior, continuity, roots, extrema, multiplicity, average rate of change, Decartes' Rule of Signs,
Rational Root Theorem.
- This assessment does cover a few NT Pre-Calculus topics, but mainly targets advanced NT Algebra 2 concepts.
- **Who should take this assessment?** Any student that has completed HMM Advanced I or proficient in HMM Advanced I. This will likely be used for second semester NT students.

If this assessment is assigned, please exclude: Questions 1, 2, 3, 4, 5, 6.

Algebra 2 student with history of struggling in Algebra.

→ Longer time frame → **HMM Linear** → **HMM Quadratic**

→ Shorter time frame → **HMM Fundamental Skills**

Algebra 2 student looking for reinforcement during the school year → **HMM Advanced I**

First Semester

→ **HMM Advanced II**

Second Semester
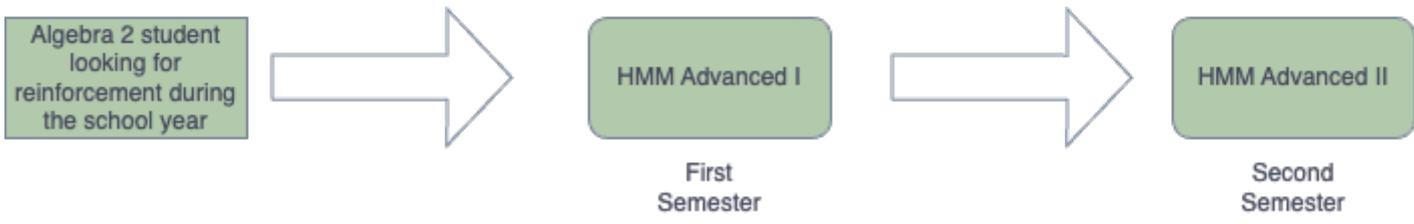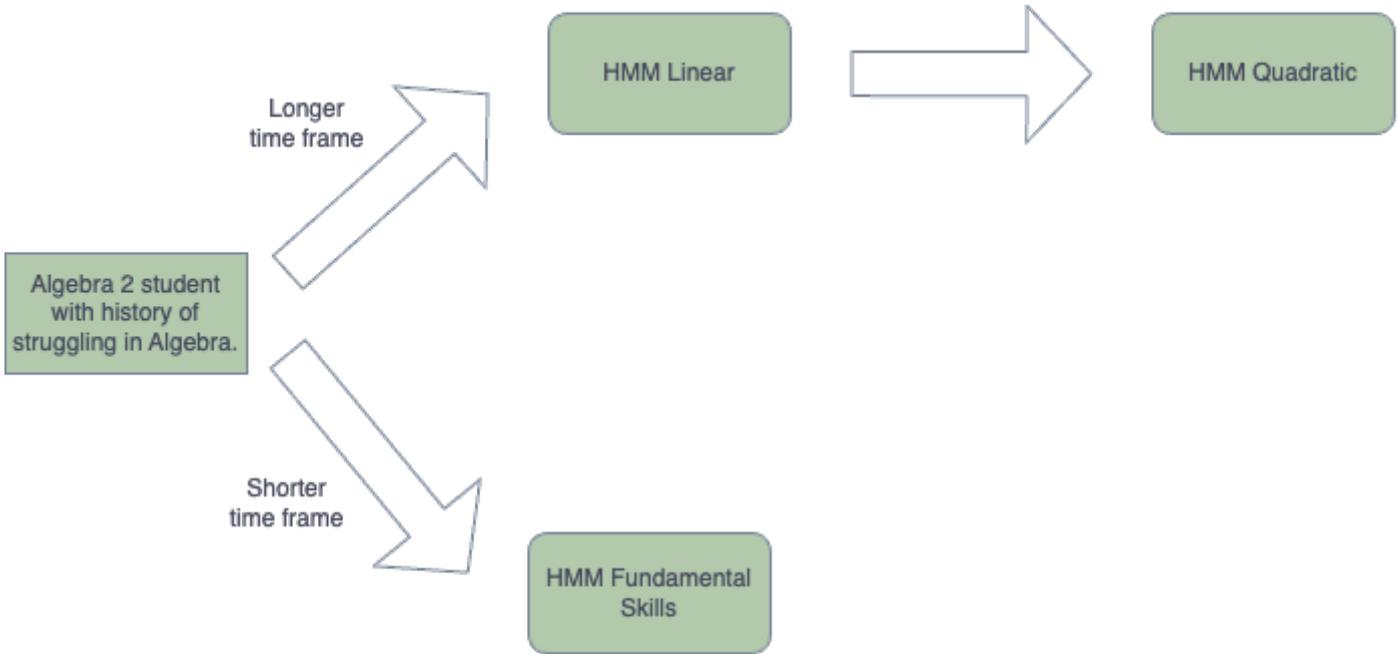
Higher Math Guide (New Trier)

Geometry

Algebra 2