



Measuring Student Growth with the Imagine Math Benchmark Series



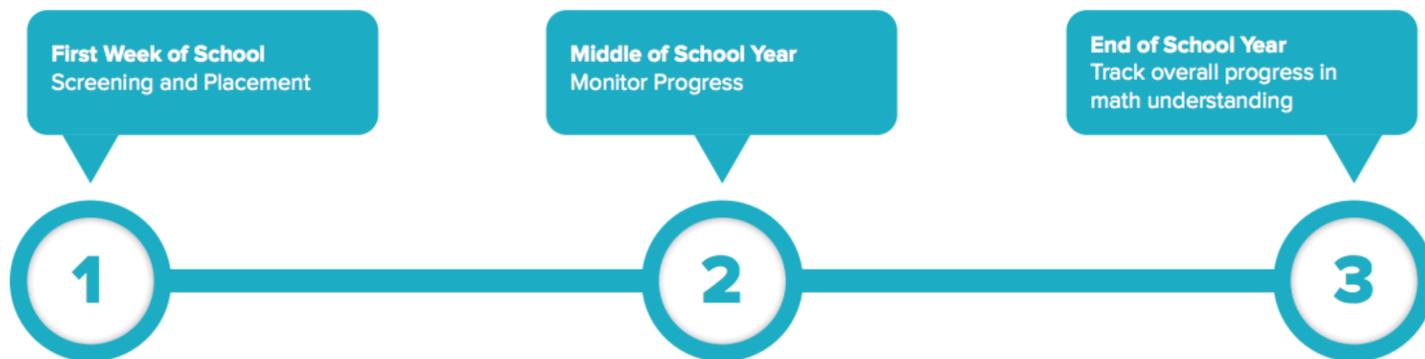
Identify a Path to Success

Imagine Math's integrated, adaptive benchmark series for grades 3 - Geometry is designed to measure individual student growth and progress.

Powered by The Quantile® Framework for Mathematics, Imagine Math's benchmark series can accurately assess student readiness to learn math using a relatively small number of items. Insights and reports from the Imagine Math benchmark series supports educators in making decisions for accelerating student achievement.



The Imagine Math benchmark series may eliminate the need to review student testing data from other systems in order to measure growth and ongoing student progress throughout the school year.



Depending on implementation model, the Imagine Math benchmark series also supports educators in making fast and effective decisions related to:

- ▶ Small group or pull-out instruction.
- ▶ Aligning assessment and instruction.

Measure Growth and Performance

The primary purpose of Imagine Math's benchmark series is to measure growth and ongoing student progress throughout the school year in conjunction with Imagine Math's supplemental mathematics instruction product.

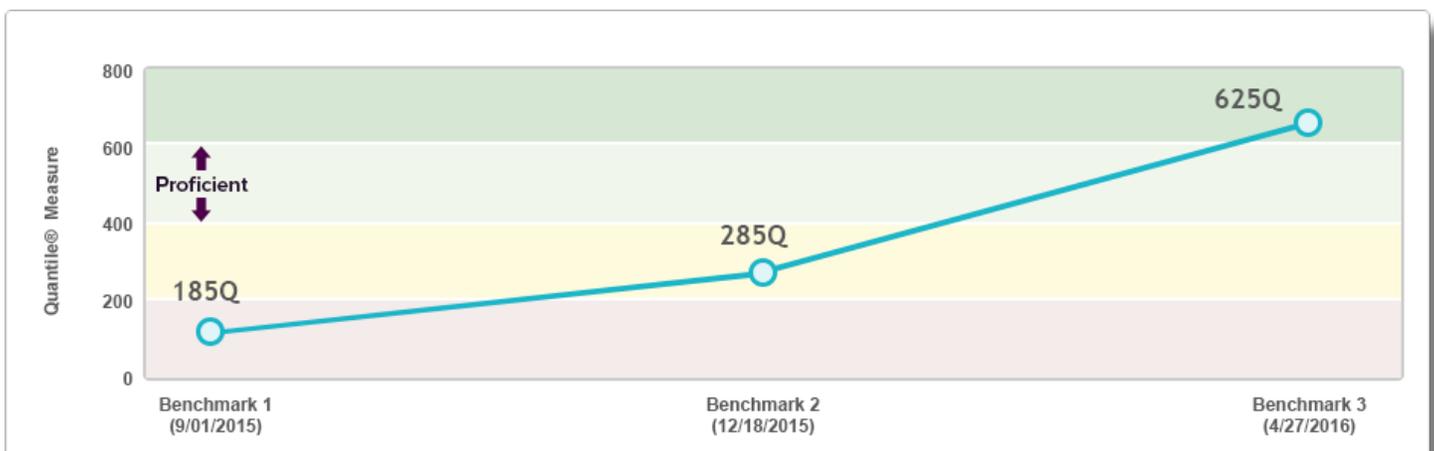


Growth is specific to each individual student and can be influenced by variety of factors.

As a result, there is no 'right' amount of growth a student should experience. Educators should encourage student

work that is consistent with maximizing growth potential toward achieving 'Proficient' performance.

At the 'Proficient' performance level, students exhibit appropriate performance when tested on grade-level skills and concepts.



Gauge Readiness for Instruction

The benchmark series can also be used to evaluate student performance and readiness for grade-level skills and concepts, independent of Imagine Math's supplemental math product.

Similar to other low-stakes assessments for grades K - Geometry, the Imagine Math benchmark series can be used to:

- ▶ Identify the grade-level at which students are ready for instruction.
- ▶ Identify student performance when instructed on grade-level appropriate skills and concepts.
- ▶ Compare student results to national normative percentile rankings.

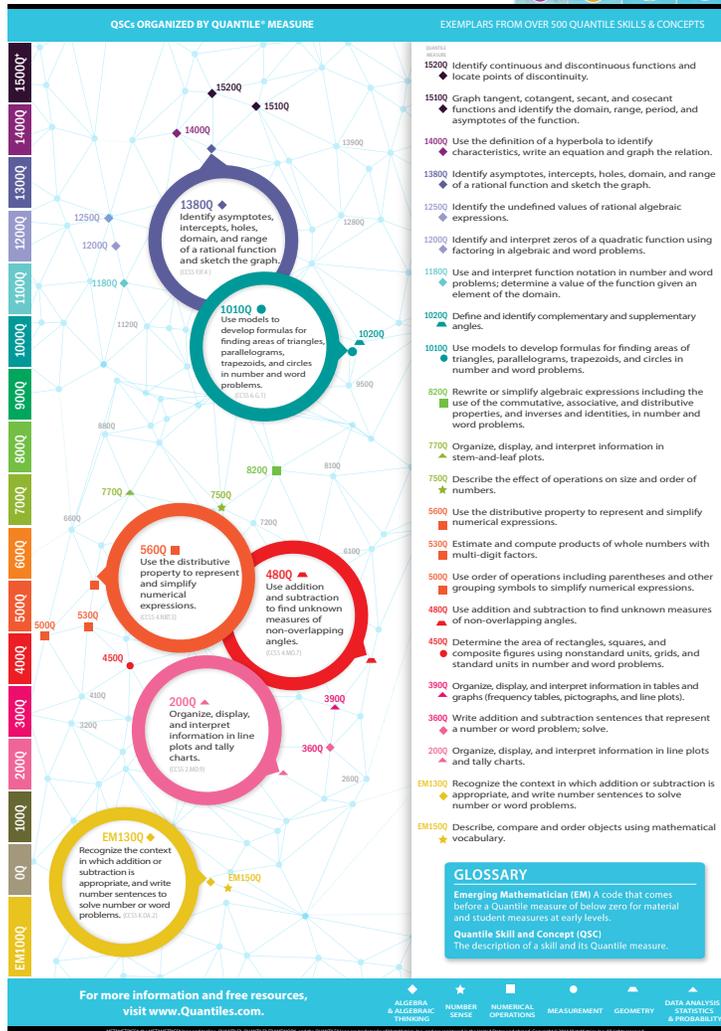


When used to evaluate student performance and readiness for grade-level skills and concepts, the Imagine Math benchmark series provides powerful support for:

- ▶ Small group or pull-out instruction.
- ▶ Intervention.
- ▶ Aligning assessment with instruction.

Imagine Math's benchmark series is not comparable to high-stakes assessments and should not be used to replace assessments such as state-wide 'end of course' or 'end of grade' assessments.

The Quantile® Framework

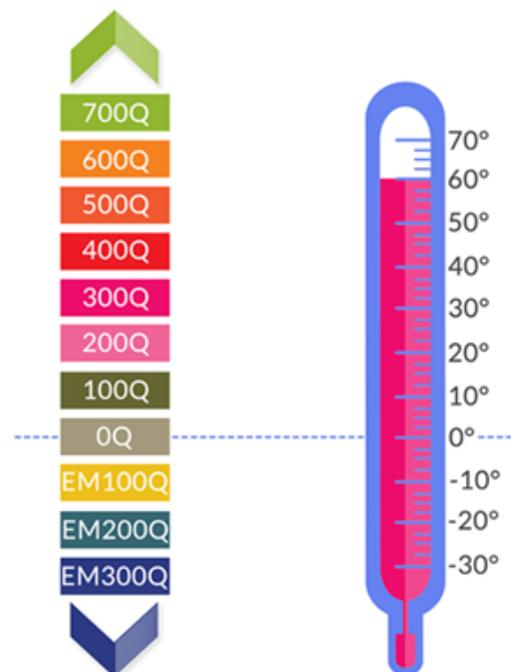


Growth in Imagine Math is measured using the Quantile Framework. This framework is aligned to over 500 Quantile Skills and Concepts (QSC) that have been aligned to the standards of each state.

These QSCs comprise a taxonomy of math skills, concepts, and applications and have been validated by research and field studies.

This Quantile Scale works similar to a thermometer.

Rather than measuring temperature on a continuum, the Quantile Framework measures readiness in mathematics learning.



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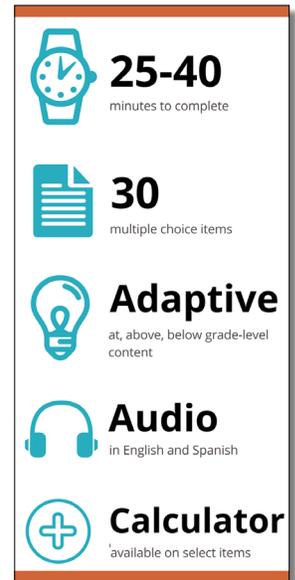
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Features of the Benchmark Series

Designed for Today's Classroom

- ▶ Benchmarks are designed to be completed in a single class period and generally take between 25 and 40 minutes to complete.
- ▶ Benchmarks consist of 30 multiple-choice items (questions).
- ▶ Students will likely see math content at, above, and below grade-level.
- ▶ Items used in benchmarks do not appear in Imagine Math lessons.
- ▶ Items include support for English and Spanish audio.
- ▶ Calculator and formula cards may be available in select items.
- ▶ Students are eligible for a benchmark every 90 days.



Fast, Efficient Grouping

Students' Quantile[®] measures are organized into performance levels. Performance levels describe students' performance when instructed on grade-level appropriate skills and concepts.¹



Combined with the Quantile measure, performance levels can be used to group students and to determine appropriate instruction.

¹ Educators in WY, OK, NC and KY will see benchmark performance levels reflect those used in their state end-of-course assessments.

Easy Administration

Benchmark 1

All students will automatically take Benchmark 1 as their first action in Imagine Math. Students' nominal grade-levels (provided at the time of student enrollment) are used to determine the first 10 items students see on the test. The next 20 items on the test assess students' readiness for grade-level math content.

The resulting instructional grade level is used to deliver benchmark remediation. Benchmark remediation consists of lessons that are added to students' learning pathways to prime students for grade-level work.¹

Benchmarks 2 and 3

Benchmarks 2 and 3 are typically administered according to school or district testing schedules. Test items served to students are based on students' Quantile measures and instructional grade levels from the previous test.

Benchmarks 2 and 3 may result in an updated 'Instructional Grade Level' that is used to adjust benchmark remediation by adding or removing lessons from students' learning pathways.¹

Educators can these administer these tests once 90 days has elapsed since students' previous tests. To maximize growth opportunities for students, educators should plan to administer benchmarks 2 and 3 as soon as students are eligible.

¹ K-2 students do not receive learning pathways.

Flexible Implementation Models

Imagine Math’s Integrated benchmark series can be used with or without Imagine Math’s award-winning supplemental mathematics instruction product.

 <p>Imagine Math Benchmark Series & Learning Pathways for All Students</p>	 <p>Imagine Math Benchmark Series for All Students & Learning Pathways for Some Students</p>	 <p>Imagine Math Benchmark Series Only for All Students</p>
<p>Best for districts & schools looking to use Imagine Math to its fullest potential in grades 3 – Geometry.</p>	<p>Best for districts & schools looking to screen & identify at-risk students & remediate in grades K – Geometry.</p>	<p>Best for districts & schools looking to assess student grade-level performance & monitor growth in grades K – Geometry.</p>
<p>All students benefit from adaptive learning pathways & integrated instructional support.</p>	<p>At-risk students benefit from adaptive learning pathways & integrated instructional support.</p>	<p>Students use Imagine Math only for testing; no adaptive learning pathways are assigned.</p>
<ul style="list-style-type: none"> ➤ Use adaptive placement test to screen & place students at the beginning of the school year. ➤ Use first & second benchmarks to measure individual student growth at mid-year & overall progress in math understanding at the end of the year. ➤ Use Imagine Math reporting & customizable math curricula to supplement instruction & maximize growth opportunities for all students. 	<ul style="list-style-type: none"> ➤ Use adaptive placement test to screen & place students at the beginning of the school year. ➤ Use first & second benchmarks to periodically measure individual student growth & math understanding. ➤ Use Imagine Math reporting & customizable math curricula to supplement instruction & maximize growth opportunities for at-risk students. ➤ Adjust classroom instruction for students not using Imagine Math. 	<ul style="list-style-type: none"> ➤ Use adaptive placement test to screen & place students at the beginning of the school year. ➤ Use first & second benchmarks to periodically measure individual student growth & math understanding. ➤ Adjust classroom instruction.

Actionable Reporting

The Imagine Math benchmark series reports provide educators with the information they need to measure student growth and performance, test administration and Imagine Math usage. These reports can also be used in conjunction with other reports in the Imagine Math reporting suite to pinpoint specific areas of struggle.

▶ Benchmark Growth Report

Used to measure student growth between benchmarks and identify the gap in Quantile® measure students need to close in order to be considered 'Proficient'. Includes usage data to target students for follow-up.

The screenshot shows the 'Benchmark Growth: Math 1' report interface. It includes a navigation bar with 'Think Through Math' logo and menu items like Home, Users, Districts, Content, Reports, Motivation, Messages, and Help. The report title is 'Benchmark Growth: Math 1' with a link to 'About Performance Levels'. Below the title, there are filters for 'From:' (Benchmark 1), 'To:' (Most Recent), 'School:' (Ben Franklin Middle School), and 'Content:' (Math 1). There are also 'All Grades' and 'Show: 20' options. A table below displays student data with columns for First Name, Last Name, Benchmark 1 (Date, Score, Status), Most Recent (Date, Score, Status), Quantile Growth, Learning to Proficient, Avg Weekly Math Time (Days), Avg Weekly Leagues Completed, and % Grade Level Score From Benchmark. The table lists students: Dana Wright, Sally Blair, Grace Lovely, and Larry Page.

▶ Benchmark Performance Report

Used to measure student movement in performance levels between benchmarks.

The screenshot shows the 'Benchmark Performance' report interface. It includes a navigation bar with 'Think Through Math' logo and menu items like Home, Users, Districts, Content, Reports, Motivation, Messages, and Help. The report title is 'Benchmark Performance' with a link to 'About Performance Levels'. Below the title, there is a filter for 'All Schools'. A table below displays school performance data with columns for School, Benchmark 1 (Far Below Basic, Below Basic, Basic, Proficient, Advanced), Students with Benchmark Data, Most Recent Benchmark (Far Below Basic, Below Basic, Basic, Proficient, Advanced), and Students with Benchmark Data. The table lists schools: Andrews Middle School, Page Middle School, and Spring El.

▶ Benchmark Administration Report

Used to measure how many students have taken each benchmark.

The screenshot shows the 'Benchmark Administration' report interface. It includes a navigation bar with 'Think Through Math' logo and menu items like Home, Users, Districts, Content, Reports, Motivation, Messages, and Help. The report title is 'Benchmark Administration' with a link to 'About Performance Levels'. Below the title, there is a filter for 'All Schools'. A table below displays school administration data with columns for School, Enrolled, % Completed P1 Benchmark, % Completed 2 Benchmarks, % Completed 3 Benchmarks, and % Completed No Benchmarks. The table lists schools: Adams Middle School, Page Middle School, Spring El, and John R. Smith Middle.