



The **Quantile® Framework for Mathematics** uses the same scale to measure both your student's mathematics ability and the difficulty of the mathematics materials. Nearly half of all U.S. students receive Quantile® measures from national, state and local assessments.



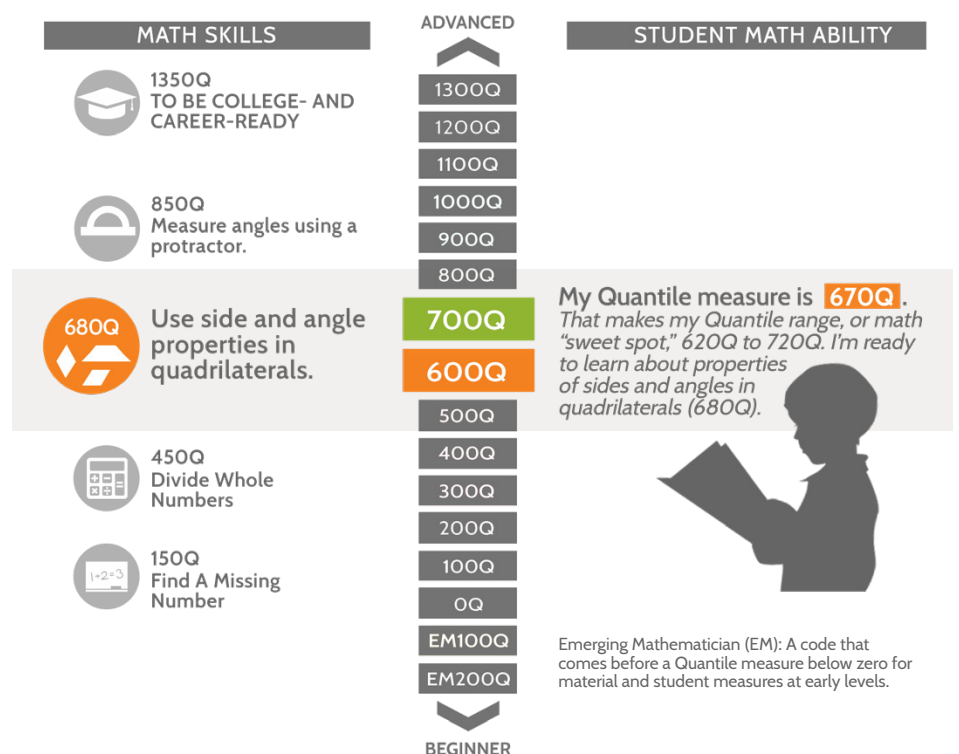
What Are Quantile Measures?

Quantile measures are represented by a number followed by a "Q" (such as "800Q") and describe students' mathematics ability and math content difficulty. Knowing the mathematical difficulty of specific materials and the abilities of individual students, you can:

- ➔ **Identify** the mathematical skills that a student is ready to learn.
- ➔ **Target** instruction with level-appropriate tasks and materials.
- ➔ **Communicate and engage** with students and parents regarding math progress.
- ➔ **Monitor** student growth in math over time.

Link Assessment With Mathematics Instruction on the Quantile Scale

Quantile measures range from Emerging Mathematician (below 0Q) to above 1400Q and span the skills taught in kindergarten through high school. As a student's Quantile measure increases, the mathematics concepts they are ready to learn become more complex. For optimal learning and growth, a student should practice mathematics with a Quantile range of 50Q below to 50Q above their reported measure.





HOW EDUCATORS USE QUANTILE MEASURES

Support Students at All Levels

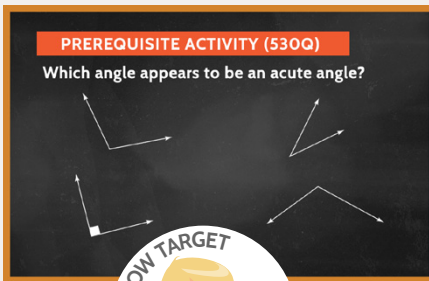
The Quantile Framework defines over 550 mathematics skills and concepts. Each of these has a measure that shows how difficult one concept is in relation to the others. Using the Quantile Framework, you can identify gaps in students' conceptual understanding of math that may frustrate or impede their success. You can also find topics for math enrichment for students ready for more challenge.

Use Quantile Measures to Differentiate Instruction in the Classroom

TODAY'S LESSON: PROPERTIES OF QUADRILATERALS (GRADE 3)

PREREQUISITE ACTIVITY (530Q)

Which angle appears to be an acute angle?



BELOW TARGET



PREREQUISITE SKILL

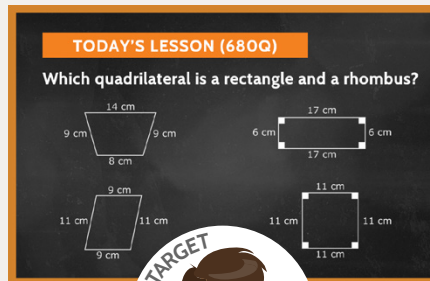
My Quantile measure is 500Q.



I need help preparing for this topic. I will review angles.

TODAY'S LESSON (680Q)

Which quadrilateral is a rectangle and a rhombus?



ON TARGET



FOCUS SKILL

My Quantile measure is 670Q.

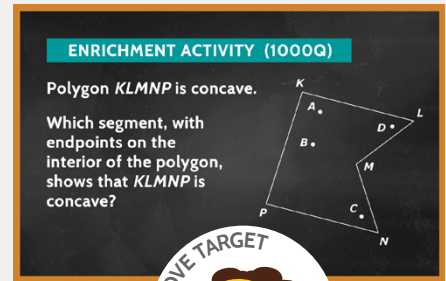


I'm ready for today's lesson.

ENRICHMENT ACTIVITY (1000Q)

Polygon $KLMNP$ is concave.

Which segment, with endpoints on the interior of the polygon, shows that $KLMNP$ is concave?



ABOVE TARGET



IMPENDING SKILL

My Quantile measure is 950Q.



I'm going to be challenged with an enrichment activity.

Access Math & Reading Tools to Tailor Learning for Your Students

The **Lexile® & Quantile®** Hub is an online platform that provides easy access to math and reading tools. We listened to feedback from educators, parents and students to develop our tools. Math tools include:



QUANTILE TEACHER ASSISTANT

Differentiate student instruction based on an individual's or classroom's Quantile measure(s).



QUANTILE MATH SKILLS DATABASE

Find aligned resources that match your state's standards.



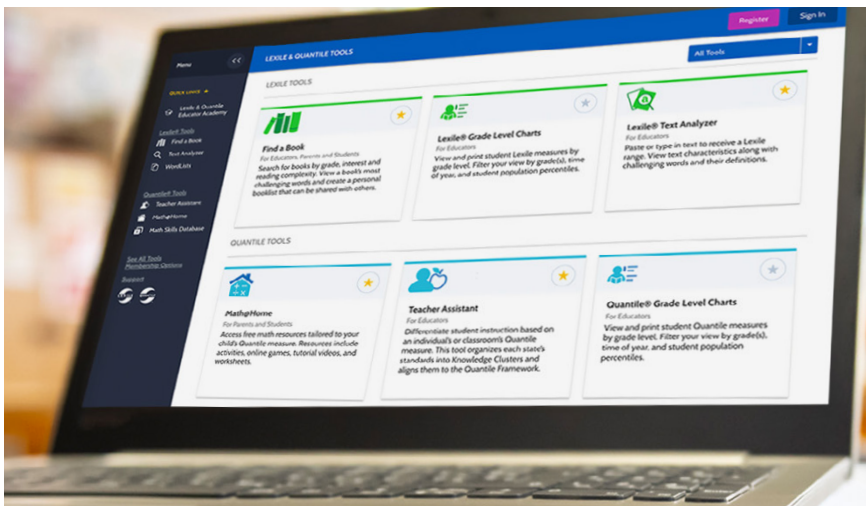
QUANTILE RESOURCE CENTER

Create and share curated lists of favorite resources through email, on websites and on social media.



QUANTILE GROWTH PLANNER

Forecast growth and explore the math demands and regional career information for hundreds of careers.



Find tools at the
Lexile & Quantile Hub!

VISIT [HUB.LEXILE.COM](https://hub.lexile.com)