Going into 8ᵗʰ Grade/8ᵗʰ Grade Honors Preparedness Options

Due to Covid-19, we are unable to offer summer courses. We are suggesting that you use Khan Academy as a resource. It is free, high quality, and customizable to meet the needs of your student.

Here are the options, JSD Mathematics is suggesting:
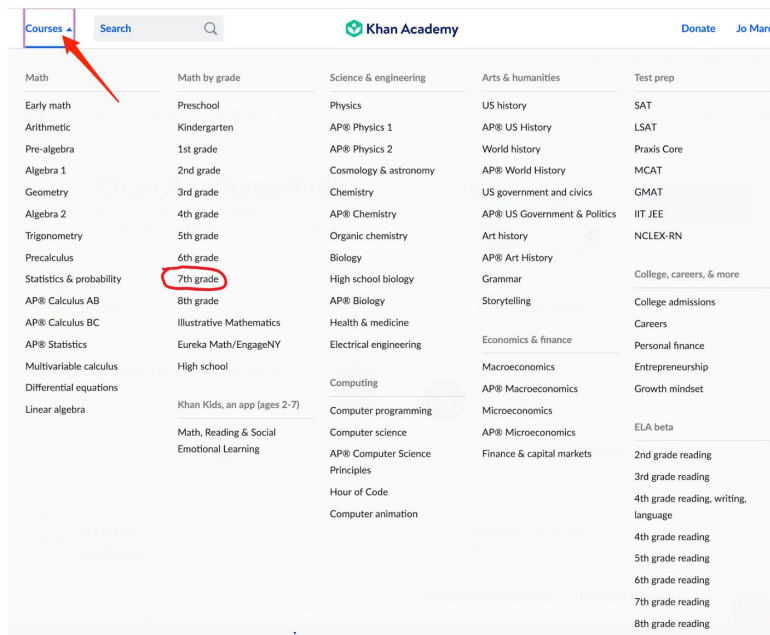Set up a parent account (FREE) on Khan Academy. Here is the link. This page has directions on how to sign up.

Step 1: Create your parent account or log into your existing account.

Step 2: View your Parent Dashboard.

Step 3: Add your child's existing account or create a new child account.

Step 4: Have your child log in.

Step 5: Choose the 7ᵗʰ Grade Math Course. Click on the Courses tab in the top left corner of the screen to see the list.

2 OPTIONS

Option 1: Do the Course Challenge. This will option will pinpoint where your specific student's areas for improvement.

Course challenge

Test your knowledge of the skills in this course. Have a test coming up? The Course challenge can help you understand what you need to review.

Start Course challenge

These are the big ideas of 7th Grade.

MAJOR, SUPPORTING, AND ADDITIONAL CLUSTERS FOR GRADE 7

Emphases are given at the cluster level. Refer to the Common Core State Standards for Mathematics for the specific standards that fall within each cluster.

Key: ■ Major Clusters   ☐ Supporting Clusters   ○ Additional Clusters

7.RP.A	■	Analyze proportional relationships and use them to solve real-world and mathematical problems.
7.NS.A	■	Apply and extend previous understandings of operations with fractions to add, subtract, multiply, and divide rational numbers.
7.EE.A	■	Use properties of operations to generate equivalent expressions.
7.EE.B	■	Solve real-life and mathematical problems using numerical and algebraic expressions and equations.
7.G.A	○	Draw, construct and describe geometrical figures and describe the relationships between them.
7.G.B	○	Solve real-life and mathematical problems involving angle measure, area, surface area, and volume.
7.SP.A	☐	Use random sampling to draw inferences about a population.
7.SP.B	○	Draw informal comparative inferences about two populations.
7.SP.C	☐	Investigate chance processes and develop, use, and evaluate probability models.

MAJOR CLUSTERS (BIG IDEAS) LESSONS

7.RPA

Rates & proportional relationships

0/1700 Mastery points

Rate problems with fractions	Identifying proportional relationships
Constant of proportionality	Graphs of proportional relationships
Compare and interpret constants of proportionality	Writing & solving proportions
	Equations of proportional relationships

7.NS.A

Up next for you:
Negative numbers: addition and subtraction

0/1900 Mastery points

Intro to adding negative numbers	Adding & subtracting negative fractions
Intro to subtracting negative numbers	Addition & subtraction word problems with negatives
Adding & subtracting with negatives on the number line	Absolute value
Adding & subtracting integers	Properties of addition & subtraction
	Adding & subtracting negative numbers: variables

Negative numbers: multiplication and division

0/1200 Mastery points

Multiply & divide negative numbers

Multiply & divide negative fractions

Multiplication & division word problems with negatives

Order of operations

Understanding multiplying and dividing fractions

Properties of multiplication & division

7.EE.A

Expressions, equations, & inequalities

0/1800 Mastery points

Combining like terms

Two-step equations with decimals and fractions

The distributive property & equivalent expressions

Two-step equation word problems

Interpreting linear expressions

One-step inequalities

Two-step equations intro

Two-step inequalities

SUPPORTING BIG IDEAS LESSONS

Geometry

0/2900 Mastery points

Area and circumference of circles

Constructing triangles

Area and circumference challenge problems

Slicing geometric shapes

Vertical, complementary, and supplementary angles

Scale copies

Missing angle problems

Scale drawings

Volume and surface area word problems

Statistics and probability

0/1100 Mastery points

Basic probability

Comparing and sampling populations

Probability models

Compound events and sample spaces