

Am I Ready for 8th grade math?

Unit 1: Numbers & Operations

Understand and use exponential form including the law of zero

[Video: Math Antics, Exponents](#)

[Video: Exponents, The Organic Chemistry Tutor](#)

Use the distributive property

[Ck-12: Distributive Property](#)

Use division to express any fraction as a decimal

[Ck-12: Converting between fractions & decimals](#)

Unit 2: Algebra

Discounts, simple interest, taxes, tips, and percent increase/decrease

[Ck-12: Percent increase or decrease](#)

[Ck-12: Calculating Simple Interest](#)

[Ck-12: Taxes, commissions, & fees](#)

Solve problems about similar objects by using scale factors

[Ck-12: Scale drawings](#)

Use linear multi-step equations with one variable to solve problems

[Ck-12: Solving two step equations](#)

Write, solve, and graph solutions of one-step inequalities with a single variable

[Ck-12: Solving inequalities](#)

Unit 3: Measurements

Convert between customary and metric units of measure

[Ck-12: Unit Conversion](#)

Unit 4: Geometry

Calculate the interior and exterior angles of various regular polygons

[Ck-12: Special angle pairs](#)

Define and apply the Pythagorean Theorem in a variety of situations

[Video: Math Antics, The Pythagorean Theorem](#)

[Video: Pythagorean Theorem Explained, The Organic Chemistry Tutor](#)

Compute the perimeter and area of regular and composite figures

[Ck-12: Area & perimeter](#)

Calculate area and circumference of circles

[Ck-12: Area & circumference](#)

Compute the volumes and surface areas of regular prisms and cylinders

[Ck-12: Surface area of cubes](#)

Unit 5: Statistics & Probability

Mean, median, mode and range

[Ck-12: Mean, Median, Mode, and Range](#)

Use information displayed in all types of graphs

[Ck-12: Histograms](#)

Calculate probabilities tree diagrams and fundamental counting principal

[Ck-12: Tree diagrams](#)