

Algebra Foundations:

This set of tutorials walks through the mathematical foundations recommended to understand algebra. While there is a wealth of information here, I particularly recommend the sections titled “The world of exponents,” “The square root,” and “Order of Operations” for those of you who feel you need additional help on these concepts. This is a good place to start if you felt completely lost in the Math Refresher.

<https://www.khanacademy.org/math/algebra-basics/core-algebra-foundations>

Below, I break down recommended tutorials by topic as they appear in the Math Refresher. Review topics where you had difficulty or review topics you where you lack confidence.

Questions 1-4:

Order of Operations

<https://www.khanacademy.org/math/cc-sixth-grade-math/cc-6th-arithmetic-operations/cc-6th-order-of-operations/v/introduction-to-order-of-operations>

Questions 5-10:

Scientific Notation

<https://www.khanacademy.org/math/algebra-basics/core-algebra-exponent-expressions/algebra-foundations-scientific-notation/v/scientific-notation-old>

Questions 11-13:

Significant Figures

<https://www.khanacademy.org/math/pre-algebra/decimals-pre-alg/sig-figs-pre-alg/v/significant-figures>

Questions 14-20:

Introduction to Logarithms

https://www.khanacademy.org/math/algebra2/logarithms-tutorial/logarithm_basics/v/logarithms

Exponents

<https://www.khanacademy.org/math/algebra-basics/core-algebra-foundations/world-of-exponents-college-readiness/v/introduction-to-exponents>

Square Roots

<https://www.khanacademy.org/math/algebra-basics/core-algebra-foundations/square-roots-for-college/v/understanding-square-roots>

Questions 21-29:

Pythagorean Theorem

https://www.khanacademy.org/math/algebra-basics/core-algebra-geometry/pyth_theor-core-algebra/v/the-pythagorean-theorem

Trigonometry

https://www.khanacademy.org/math/trigonometry/basic-trigonometry/basic_trig_ratios/v/basic-trigonometry

Questions 30-34:

Unit Conversion

<https://www.khanacademy.org/math/cc-fifth-grade-math/cc-5th-measurement-topic/cc-5th-unit-conversion/v/converting-gallons-to-quarts-pints-and-cups>

<https://www.khanacademy.org/math/cc-fifth-grade-math/cc-5th-measurement-topic/cc-5th-unit-conversion/v/unit-conversion-with-fractions>

Questions 42-43:

Solving for a Specific Variable

https://www.khanacademy.org/math/algebra/solving-linear-equations-and-inequalities/solving_for_variable/v/rearrange-formulas-to-isolate-specific-variables