

8th grade online resources:

8th Grade Standard 1 Number Sense

Scientific Notation:

Basic: <http://www.quia.com/quiz/382466.html>

Multiplying/Dividing Scientific notation

https://www.khanacademy.org/math/pre-algebra/exponents-radicals/computing-scientific-notation/e/multiplying_and_dividing_scientific_notation

Adding/Subtracting Scientific Notation

<https://www.khanacademy.org/math/cc-eighth-grade-math/cc-8th-numbers-operations/cc-8th-scientific-notation-compu/e/adding-and-subtracting-in-scientific-notation>

Number System

<http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-860368-4&chapter=9&lesson=2&&headerFile=5&state=in>

Exponents

Simple: <http://www.math-play.com/Exponents-Jeopardy/exponents-jeopardy-math-game.html>

<http://algebrahelp.com/lessons/simplifying/negativeexponents/index.htm>

http://www.classzone.com/books/math_shared/math3/eTutorial/site/lessonmenu.htm?chapter=4&lesson=6

Square roots

Millionaire Game <http://www.math-play.com/square-roots-game.html>

Various Resources

http://www.internet4classrooms.com/skill_builders/square_root_math_eighth_8th_grade.htm

Estimating and Simplifying

<http://www.xpmath.com/forums/arcade.php?do=play&gameid=88>

8th Grade Standard 2 Computation

Computation

<http://www.funbrain.com/guess2/index.html>

Integer Word Problems <https://www.thatquiz.org/tq/previewtest?CKVU7766>

Consumer math:

http://www.aaamath.com/B/rat68_x9.htm

Math at the Mall <http://www.mathplayground.com/mathatthemall2.html>

Determining reasonable answers:

<http://www.shodor.org/interactivate/activities/MoreOrLessEstimator/>

Fractions-decimals-percents

Basic <http://www.mathgoodies.com/games/conversions/>

Fruit Shoot <http://www.sheppardsoftware.com/mathgames/fractions/FractionsToDecimals.htm>

See 7th grade resources for additional websites

8th Grade Standard 3 Algebra

Translating Expressions <http://www.quia.com/jg/319817.html>

Equations and inequalities

Practice Game <https://www.quia.com/rr/168572.html>

Multi-Step Equations with Parentheses Practice

https://www.khanacademy.org/math/in-eighth-grade-math/linear-equations-one-variable/reducing-equations-simpler-form/e/multistep_equations_with_distribution

Equation Review Activity

<http://www.studyzone.org/mtestprep/math8/a/multi-step-equations7p.cfm>

Inequalities

Graphing <https://www.ltcconline.net/greenl/java/BasicAlgebra/inequalityGame/inequalities.html>

Solving and graphing on a number line

<http://www.regentsprep.org/regents/math/algebra/ae8/PSolvIn.htm>

Multiple Quizzes on Inequalities

<http://www.mrmaisonet.com/index.php?/Inequality-Quiz/>

Systems:

Solving a System by Graphing Practice

<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-by-graphing>

Graphing Systems Practice

<http://www.regentsprep.org/regents/math/algebra/ae3/pracgr.htm>

How to use Substitution:

http://www.wisc-online.com/objects/index_tj.asp?objID=GEM904

Substitution Practice

<https://www.ixl.com/math/algebra-1/solve-a-system-of-equations-using-substitution>

Order of operations

Basic http://www.softschools.com/math/order_of_operations/games/

Choose HARD level: <http://www.funbrain.com/algebra/>

Graphing lines:

Identifying slope from a graph

<https://www.ixl.com/math/grade-8/find-the-slope-of-a-graph>

Slope given two points

<https://www.ixl.com/math/algebra-1/find-the-slope-from-two-points>

Slope Explained Khan Academy

<https://www.khanacademy.org/math/algebra-basics/core-algebra-graphing-lines-slope/core-algebra-slope/e/slope-from-a-graph>

Tutorial on Graphing with points, intercepts, and slope intercept form

http://plaza.ufl.edu/youngdj/applets/graphing_practice.html

Slope intercept form

<https://www.ixl.com/math/algebra-1/slope-intercept-form-graph-an-equation>

Multiple Choice Practice Graphing

<http://www.regentsprep.org/regents/math/algebra/ac1/pracline.htm>

8th Grade Standard 4 Geometry/Measurement

Angle Relationships

<http://www.mathgames.com/skill/8.85-complementary-supplementary-vertical-and-adjacent-angles>

Understanding Area and Volume:

<http://www.quia.com/jq/67647.html>

Volume Formulas and Practice: See left side of website for additional solids

https://www.khanacademy.org/math/geometry/basic-geometry/volume-tutorial/e/solid_geometry

Surface Area:

<https://www.khanacademy.org/math/basic-geo/basic-geo-volume-surface-area/basic-geo-surface-area/e/surface-areas>

transformations:

Basic practice: <http://www.sciencekids.co.nz/gamesactivities/math/transformation.html>

Explained: <http://www.shodor.org/interactivate/activities/TransmographerTwo/>

Pythagorean theorem

Multiple Choice Review Pythagorean Theorem

<http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-860368-4&chapter=9&lesson=5&&headerFile=5&state=in>

Pythagorean Theorem Applied

<https://www.brainiaccamp.com/lessons/pythagorean-theorem/problems.php>

Adding Measurements

<http://www.math.com/school/subject1/practice/S1U2L3/S1U2L3Pract.html>

Scale drawings:

Real world practice Scale Drawings:

http://www.transum.org/software/Online_Exercise/ScaleDrawing/

Proportional Reasoning: Ratios, Rate, Proportions, Scale

<https://www.ket.org/scalecity/>

Area of irregular figures

<http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-860368-4&chapter=10&lesson=8&&headerFile=5&state=in>

Area of standard figures:

<http://www.aplusmath.com/Flashcards/area.html>

8th Grade standard 6 Data analysis/Probability

Graphs:

Analyzing Box and whisker plots

<https://www.ixl.com/math/grade-7/interpret-box-and-whisker-plots>

Analyzing Box and whisker plots 2

<https://www.ixl.com/math/algebra-1/interpret-box-and-whisker-plots>

Trends in Scatterplots

<https://www.ixl.com/math/algebra-1/interpret-a-scatter-plot>

Analyzing Trends in Scatterplots

<https://www.khanacademy.org/math/probability/regression/prob-stats-scatter-plots/e/interpreting-scatter-plots>

Data Distribution Activities

<http://mathbitsnotebook.com/Algebra1/StatisticsData/SToutline.html>

Analyzing Data Practice Quiz

<http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-860368-4&chapter=12&lesson=5&&headerFile=5&state=in>

Probability:

Simplifying Probability Quiz

<http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-860368-4&chapter=6&lesson=9&&headerFile=5&state=in>

Fundamental Counting Principle

<http://www.regentsprep.org/regents/math/algebra/apr1/pracnt.htm>

Probability of Simple Events

<https://ca.ixl.com/math/grade-8/probability-of-simple-events>

Probability of Independent and Dependent Events

<https://www.ixl.com/math/grade-6/probability-of-dependent-and-independent-events>