

Expressions & Equations

DIGITAL GAMES

[Expressions & equations: know and apply the properties of integer exponents to generate equivalent numerical expressions](#) CCSS.MATH.8.EE.A.1

[Evaluate square roots of small perfect squares and cube roots of small perfect cubes](#) CCSS.MATH.8.EE.A.2

[Use numbers expressed as single digit times a power of 10 to estimate large or small quantities](#) CCSS.MATH.8.EE.A.3

[Perform operations with numbers in scientific notation; know when to use scientific notation](#) CCSS.MATH.8.EE.A.4

KIT-REQUIRED GAME

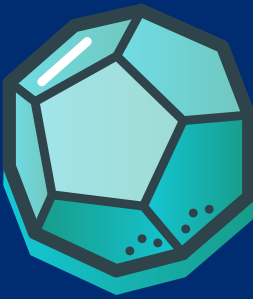
[Evaluate expressions and equations](#) CCSS.MATH.8.EE.A



Functions

KIT-REQUIRED GAME

[Use functions to model relationships between quantities](#) CCSS.MATH.8.F.B



Geometry

DIGITAL GAMES

[Verify the properties of rotations, reflections, and translations through experimentation](#) CCSS.MATH.8.G.A.1

[Describe a sequence of transformations that exhibits the congruence between two figures](#) CCSS.MATH.8.G.A.2

[Describe effect of dilations, translations, rotations, reflections on 2-d figures using coordinates](#) CCSS.MATH.8.G.A.3

[Given two similar 2-d figures, describe a sequence of transformations that exhibits similarity](#) CCSS.MATH.8.G.A.4

[Use informal arguments to establish facts about angles](#) CCSS.MATH.8.G.A.5

[Explain a proof of the Pythagorean Theorem and its converse](#) CCSS.MATH.8.G.B.6

[Apply the Pythagorean Theorem to determine unknown side lengths in right triangles](#) CCSS.MATH.8.G.B.7

[Apply the Pythagorean Theorem to find the distance between two points in a coordinate system](#) CCSS.MATH.8.G.B.8

[Know and apply the formulas for the volumes of cones, cylinders, and spheres](#) CCSS.MATH.8.G.C.9

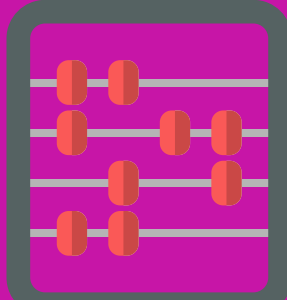
KIT-REQUIRED GAMES

[Understand congruence and similarity](#) CCSS.MATH.8.G.A

[Understand and apply the Pythagorean Theorem](#) CCSS.MATH.8.G.B

[Understand when and how to calculate volume for solid objects](#) CCSS.MATH.8.G.C

[Understand when and how to calculate volume for solid objects](#) CCSS.MATH.8.G.C



The Number System

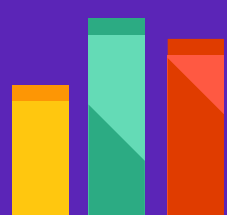
DIGITAL GAMES

[Understand informally that every number has a decimal expansion](#) CCSS.MATH.8.NS.A.1

[Use rational approximations of irrational numbers to compare, locate, and estimate values](#) CCSS.MATH.8.NS.A.2

KIT-REQUIRED GAME

[Understand and calculate with rational and irrational numbers](#) CCSS.MATH.8.NS.A



Statistics & Probability

DIGITAL GAMES

[Construct/interpret scatter plots for bivariate data; investigate association between 2 quantities](#) CCSS.MATH.8.SP.A.1

[Informally fit a straight line in a scatter plot; use to assess relationships between data points](#) CCSS.MATH.8.SP.A.2

[Use linear equation model to solve bivariate measurement data problems; interpret slope/intercept](#) CCSS.MATH.8.SP.A.3

[Construct/interpret a 2-way table summarizing data on two categorical variables from same subjects](#) CCSS.MATH.8.SP.A.4

KIT-REQUIRED GAME

[Understand bivariate data](#) CCSS.MATH.8.SP.A

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