



Math Upgrade 8 Common Core Alignment By Standard

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Standard	Topic	Math Upgrade 8 Level Numbers & Names
The Number System		
8.NS.A.1	Irrational Dec Expansion	2 Irrational Numbers
8.NS.A.2	Irrational Approximations	2 Irrational Numbers, 3 Square Roots
Expressions And Equations		
8.EE.A.1	Exponent Operations	5 Exponent Rules
8.EE.A.2	Square Roots, Cube Roots	4 Exponent Basics, 3 Square Roots, 6 Square Root Equations
8.EE.A.3	Scientific Notation	7 Scientific Notation, 9 Scientific Comparison
8.EE.A.4	Scientific Operations	8 Scientific Operations
8.EE.B.5	Slope and Proportion	22 Parallel Perpendicular, 28 Slope Unit Rate, 29 Mixture Ratio, 31 Graphing Calculator
8.EE.B.6	Slope and Triangles	20 Slope of a line
8.EE.B.7a	Equation Solutions	15 Equation Solutions
8.EE.B.7b	Solve Equations	14 Solve Equations
8.EE.B.8a	Systems Graphing	32 Systems Graphing
8.EE.B.8b	Systems Substitution	33 Systems Substitution
8.EE.B.8c	Systems Problems	34 Systems Problems
Functions		
8.F.A.1	Functions Basics	35 Functions Relations, 36 Functions Notation
8.F.A.2	Compare Functions	37 Compare Functions
8.F.A.3	Linear Functions	16 Linear Equations, 18 Points on a Line, 19 Line Graphs, 38 Non-Linear Graphs
8.F.B.4	Model Linear Function	21 Slope Intercept, 39 Model Linear Functions
8.F.B.5	Non-Linear Graphs	38 Non-Linear Graphs
Geometry		
8.G.A.1a	Symmetry Lines	45 Symmetry Lab
8.G.A.1b	Symmetry Angles	45 Symmetry Lab
8.G.A.1c	Symmetry Parallel Lines	45 Symmetry Lab
8.G.A.2	Congruent Figures	46 Congruent Figures
8.G.A.3	Coordinate Symmetry	47 Coordinate Symmetry
8.G.A.4	Similar Figures	48 Similar Figures
8.G.A.5	Triangle Arguments	49 Triangle Arguments
8.G.B.6	Pythagorean Proof	50 Pythagorean Proof
8.G.B.7	Pythagorean Problems	51 Pythagorean Problems
8.G.B.8	Pythagorean Distance	52 Pythagorean Distance
8.G.C.9	Volume Solid Figures	53 Volume Solid Figures
Statistics And Probability		
8.SP.A.1	Scatterplots	54 Scatterplots, 55 Scatterplots Create
8.SP.A.2	Linear Fit	56 Linear Fit
8.SP.A.3	Linear Model Problems	57 Linear Model Problems
8.SP.A.4	Two-Way Tables	58 Two-Way Tables



Math Upgrade 8 Common Core Alignment By Course Lesson

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#	Lesson	Standard		Lesson	Standard
1	Rational Numbers	review	31	Graphing Calculator	8.EE.B.5
2	Irrational Numbers	8.NS.A.1, 2	32	Systems Graphing	8.EE.C.8a
3	Square Roots	8.NS.A.2, 8.EE.A.2	33	Systems Substitution	8.EE.C.8b
4	Exponent Basics	review	34	Systems Problems	8.EE.C.8c
5	Exponent Rules	8.EE.A.1	35	Functions Relations	8.F.A.1
6	Square Root Equations	8.EE.A.2	36	Functions Notation	8.F.A.1
7	Scientific Notation	8.EE.A.3	37	Compare Functions	8.F.A.2
8	Scientific Operations	8.EE.A.4	38	Nonlinear Graphs	8.F.A.3, 8.F.B.5
9	Scientific Comparison	8.EE.A.3	39	Model Linear Functions	8.F.B.4
10	Coordinate Graphs	review	40	Angles Lines	review
11	Relations Table Graphs	review	41	Triangles	review
12	Translate Words to Algebra	review	42	Polygons	review
13	Solve 1-Step Equations	review	43	Scale Drawings	review
14	Solve Equations	8.EE.B.7b	44	Symmetry	review
15	Equation Solutions	8.EE.B.7a	45	Symmetry Lab	8.G.A.1a,1b,1c
16	Linear Equations	8.F.A.3	46	Congruent Figures	8.G.A.2
17	Graph by Intercept	review	47	Coordinate Symmetry	8.G.A.3
18	Points on a Line	8.F.A.3	48	Similar Figures	8.G.A.4
19	Line Graphs	8.F.A.3	49	Triangle Arguments	8.G.A.5
20	Slope of a Line	8.EE.B.6, 8.F.B.4	50	Pythagorean Proof	8.G.B.6
21	Slope Intercept	8.F.B.4	51	Pythagorean Problems	8.G.B.7
22	Parallel Perpendicular	8.EE.B.5	52	Pythagorean Distance	8.G.B.8
23	Point Slope	8.F.B.4	53	Volume Solid Figures	8.G.C.9
24	Ratio Proportion	review	54	Scatterplots	review
25	Unit Rates 7	review	55	Scatterplots Create	8.SP.A.1
26	Constant of Proportionality	review	56	Linear Fit	8.SP.A.2
27	Proportion graphs	review	57	Linear Model Problems	8.SP.A.3
28	Slope Unit Rate	8.EE.B.5	58	Two-Way Tables	8.SP.A.4
29	Mixture Ratio Problems	8.EE.B.5	59	Performance Problem 8	
30	Rate Problems	8.EE.B.5	60	Final Challenge	

*enhancements to level or change extra / state level to Common Core level planned