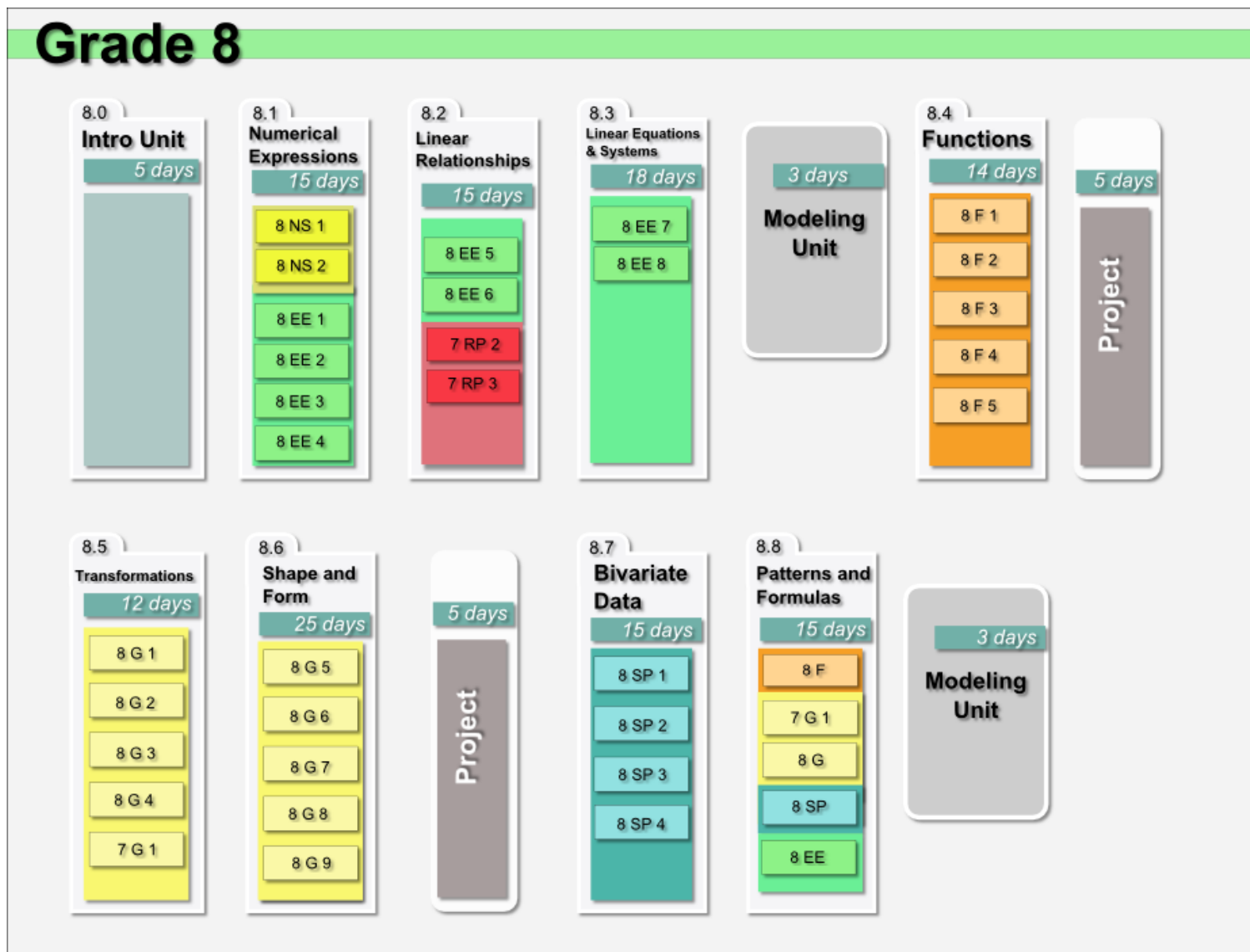


CCSS PrBL Curriculum Map: Grade 8

The following sample Problem Based Learning (PrBL) curriculum map is modeled after the scope and sequence shown below. Each of the tasks are mapped to the [Common Core State Standards](#) and can be found online. Note that this curriculum map only outlines the problem progression and does NOT address student-centered scaffolding, which is a crucial aspect of an effective math classroom. For student-centered scaffolding ideas and sample tasks, go [here](#).



Unit/Problems	Content Standards (CCSS)	Days
Intro Unit (5 days)		
Supreme Court Welcome (NCTM Illuminations)		3
Cubes Everywhere (NCTM Illuminations)		1

How old are they? (MARS)	1
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UNIT 8.1: Numerical Expressions	8-NS.1,2, 8-EE.1,2,3,4	15
Always, Sometimes, Never (Fawn)	8-NS.1,2	1
M&M Pyramid (Kristen)	8-EE.2	1
Square Roots go Rational (NCTM Illuminations)	8-NS.2, 8-EE.1,2	1
Repeating Decimals (MARS)	8-NS.1, 8-EE.8	3
Cost of Super Bowl Commercials (Yummymath)	6.EE.1, 7.EE.1, 8.EE.1-4, N-RN	1
Estimating Length Using Scientific Notation (MARS)	8.EE.1	3
How many stars in the Universe? (Robert)	8.EE.3, 8.EE.4	1
March Madness is here again (Yummymath)	2.MD.10, 5.NBT, 7.RP, 7.NS, 8.EE.3, 8.EE.4	2
The Perfect Bracket (Yummymath)	6.RP.3d, 7.SP.8, 8.EE.3, 8.EE.4	1
[remediation, extension, assessment, skill practice]		1

UNIT 8.2: Linear Relationships	8-EE.5,6, 7-RP.2,3	15
The Domino Effect (Mathalicious)	8-EE.5, 8-F.5	1
Cheesy Goldfish (Yummymath)	8-EE.5, 8-F.4, 7-RP.2,3	2
Rise and Run Triangles (NCTM Illuminations)	8-EE.5,6	1
Staircases and Steepness (Fawn)	8-EE.5	1
Journey (MARS)	8-EE.5,6	1
Shelves (MARS)	8-EE.5,6	1
Colinear square corners (David)	8-EE.5, RP.1,2,3	1*
Bike Ride (MARS)	8-EE.5,6	1
Constant Dimensions (NCTM Illuminations)	8-EE.5,6	1
[remediation, extension, assessment, skill practice]		0

UNIT 8.3: Linear Equations and Systems	8-EE.7,8	18
Solving Special Case Equations (Sarah)	8.EE.7,7a	1
Solving for Y with Cups and Kisses (Julie)	8-EE.7,7a	1
Ditch Diggers (Dan)	8-EE.7	2*
Solving linear equations in one variable (MARS)	8-EE.7	3
DVR Dilemma (Yummymath)	8-EE.7, 8, A-CED, 6.RP, 7-RP	2
Chips and Candy (MARS)	8-EE.8	1
Hot Under the Collar (MARS)	8-EE.8	1
Playing Catch Up (Dan)	8-EE.8	1
Building and Solving Equations 1	8-EE.8	2

(MARS)		
Classifying Solutions to Systems of Equations (MARS)	8-EE.8	2
Systems of Equations and Word Problems Desmos Activity (Ella)	8-EE.8	1
Linear Systems Challenge (David)		1
[remediation, extension, assessment, skill practice]		

Modeling Unit		3
Solving Real Life Problems: Baseball Jerseys (MARS)	8-EE.8	3

UNIT 8.4: Functions	8-F.1,2,3,4,5	14
Meal Out (MARS)	8-F.3	1
Interpreting Distance vs. Time Graphs (MARS)	8-F.4	3
Modeling Situations with Linear Equations (MARS)	8-F.4	3*
Generalizing Patterns: The Difference of Two Squares (MARS)	8-F.3,4	3
Lifespan of a meme, the Harlem Shake (Yummymath)	8-F.3 , 8-F.5 , HSS-IC.B.6	1
Lines and Linear Equations (MARS)	8.EE.5, 8-F.4	3
How many hot dogs did they eat? (Robert)	8-F.3, 8-F.4, F-BF.1, F-BF.2, F-IF.6, F-LE.5	1
Joules (Dan)	8-F.5	1
[remediation, extension, assessment, skill practice]		

Project		5
Hotel Snap (Fawn)		3

UNIT 8.5: Transformations	7-G.1, 8-G.1,2,3,4,5	12
Aaron's Designs (MARS)	8-G.2,3	1*
Representing and Combining Transformations (MARS)	8-G.2,3	3
Identifying Similar Triangles (MARS)	8-G.4	3
How did they make Mrs. Pac-Man? (Robert)	8.G.1 8.G.2 8.G.3 8.G.4 G-SRT.2 G-CO.6	2
Paper Angles (Kate and Justin)	8.G.5	1
[remediation, extension, assessment,		2

skill practice]		
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UNIT 8.6: Shape and Form	8-G.6,7,8,9	25
Jane's TV (MARS)	8-G.6,7,8	1
The Pythagorean Theorem: Square Areas (MARS)	8-G.6,7,8	3
Basketball Travel (Andrew)	8-G.7	1
Watson Save (Yummymath)	8-G.8	1
Volume of Cones Discovery (Julie)	8-G.9	1
Largest Cup of Coffee Ever (Yummymath)	8-G.9	1
Modeling: Making Matchsticks (MARS)	8-G.9	3
Caloric Quandary (Geoff)	8-G.9, 7-RP.1	1
Amazing Watermelons (John)	8-G.9	1
Volume of a Sphere (Nick)	8-G.9	1
Spaceballs & Megamaid (Geoff)	8-G.9	2
[remediation, extension, assessment, skill practice]		9

Project		5
Remodel (Sarah)		5*

UNIT 8.7: Bi-variate Data	8-SP.1,2,3,4	15
Opening Day (Yummymath)	8-SP.1,2,3, 7-SP	1
Hand Span and Height (Illustrative Mathematics)	8-SP.1	1
Birds Eggs (MARS)	8-SP.1	2
Polygraph: Scatter Plots (Megan)	8-SP.1,2	1
Exploring Linear Data (NCTM Illuminations)	8-SP.1,2	1
U.S. Airports (Illustrative Mathematics)	8-SP.3	2
Music and Sports (Illustrative Mathematics)	8-SP.4	2
What's your favorite subject (Illustrative Mathematics)	8-SP.4	1
Scatter Diagram (MARS)	8-SP.1,2,3,4	2*
[remediation, extension, assessment, skill practice]		1

UNIT 8.8: Patterns and Formulas	8-F, 7-G.1,8-G,8-SP, 8-EE	15
Adjacent Circles (NCTM Illuminations)	8-EE	1
Do You Notice Sum-thing? (NCTM Illuminations)	8-EE	1

Follow that Diagonal! (Kate)	8-F,8-G,8-EE	1
Adding it all up (NCTM Illuminations)	8-F,8-G,8-EE	1
A Lunch-in Affair (NCTM Illuminations)	8-EE	1
One Grain of Rice (NCTM Illuminations)	8-EE, 8-F	1
Printing Books (NCTM Illuminations)	8-EE, 8-SP	1
How sharp is the iPhone's retina display? (Robert)	8.G.7, G-SRT.8,G-GPE.7	1
Gumball profits (Robert)	8-G.9, 7-SP.6, 5-MD.3,4,5	2*
How many feet of lights do I need? (Yummymath)	8.EE.6, 8.G.9 , G-SRT.8, G-MG.1	2
[remediation, extension, assessment, skill practice]		3

Modeling Unit		3