

# 6<sup>th</sup> Grade: Math 8 At-A-Glance Pacing Guide

2017-2018 school year, MACEY

Week	New SOL	Topics
8/7-8/10		Intro to class, procedures, set up, etc
8/13-8/17	SOL 8.2 SOL 7.1d, 8.3ab SOL 6.4	The Real Number System Square Roots, Perfect Squares Absolute Value
8/20-8/24	SOL 6.5abc	Multiply and divide fractions and mixed numbers and solve practical problems involving fractions (teach frac. Operations/rules w negatives) Multiple representations of multiplication and division of fractions
8/27-8/31	SOL 7.1a,b SOL 6.6c,8.14a	Negative exponents, scientific notation Order of operations (all grouping symbols)
9/4-9/7	SOL 8.1 SOL 7.1c SOL 6.2ab	Comparing and Ordering numbers Represent different forms of FDP
9/10-9/20 2 weeks	SOL 6.6a,b SOL 8.14ab	Integer operations (model and solve +, -, x, / of integers) Simplifying Numerical Expressions/ Evaluate Algebraic Expressions
9/24-10/5 2 weeks	SOL 8.4 SOL 7.3 SOL 6.1,6.12bc	Proportional Relationships – Practical Problems Ratios, Proportions, and Percents (tax, tip, discount included as well as scale drawings, conversions, percents)
10/9-10/19 2 weeks	SOL 8.11 SOL 7.8	Independent and Dependent Probabilities Compare and Contrast Ind vs. Dependent Experimental vs. theoretical (Law of large numbers) Fundamental Counting Principle
10/22-10/26	SOL 8.17 SOL 7.16	Properties of Operations used to solve equations
10/29-11/30 (5 weeks w/Thanksgiving break)	SOL 7.13 SOL 6.14 SOL 8.18	Solve and Graph 1-step and 2 step Equations and Inequalities
12/3-12/7	SOL 8.17	Solve multi-step Equations
12/10-12/19	SOL 6.8 SOL 7.10 SOL 8.15 SOL 8.17	Identify points on the Coordinate plane and graph ordered pairs Graph Linear Relationships in two variables (*Slope & SI extra-helps them grasp better and see the ratio proportion better) Describe & represent arithmetic and geometric sequences, using variable expressions <b>Slope and y intercept</b>
Winter break 12/20-1/2 1/3-1/11	SOL 8.16	Identify Domain, Range, Independent/Dependent variables
1/14-1/25	SOL 7.10 SOL 8.16	Make connections between any two (tables, graphs, words, rules) <b>Slope and y intercept</b>
1/28-2/7	SOL 6.11 SOL 7.9 SOL 8.12 SOL 8.13	Circle graphs, mean as balance point, which measure of center is appropriate Compare other types of graphs with histograms Statistics: scatterplots and box and whisker
2/11-2/15	SOL 8.5 SOL 6.9 SOL 7.5	Angle Relationships Congruency Proportional Relationships-Plane figures
2/19-2/22	SOL 7.6	Compare and contrast quadrilaterals based on properties
2/25-3/1	SOL 8.9	Pythagorean Theorem

3/4-3/15	SOL 6.7c	Perimeter, Area, and Circumference(Circle, rec, square, triangle 2D) Define Pi, solve practical problems with circumference and area Practical problems involving area and perimeter	
3/18-4/5 Spring break 3/25-4/1	SOL 8.10	Solve Practical Area & Perimeter Problems Involving Composite Figures(basic composite shapes, NON word problems)	
4/8-4/19	SOL 7.4 SOL 8.6	Surface Area and Volume (rec prism, cylinder) Surface Area and Volume cont..(pyramid and triangular prism)	
4/22-4/26	SOL 7.7 SOL 8.7	Transformations	
4/29-5/3	SOL 8.8	Isometric blocks	Orthographic Projections
4/23-5/11	ALL SOL's	Post-Test & start SOL review	
Cont...	ALL SOL's	Review for SOL	
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5/14-5/23		CELEBRATE!!	