

First Instruction should follow the [CSD Pacing Guide](#) based on CCSS Grade Level Content.

## Grade 8 Curriculum Guide

CSD Highest Priority Concepts by <i>Open Up</i> Unit:							
Units 1	Unit 2	Unit 3	Unit 4	Unit 5	Unit 7	Unit 8	Unit 6
<p>Understand congruence by describing the effects of and performing rigid transformations including rotations, translations, and reflections on two-dimensional shapes.</p>	<p>Understand similarity by describing the effects of and performing transformations including rotation, translations, reflections and dilations on two-dimensional shapes.</p>	<p>Understand the connection between proportional relationships, lines, and linear equations.</p>	<p>Analyze and solve linear equations and pairs of simultaneous linear equations. <i>(Focus on algebraic methods for solving equations)</i></p>	<p>Interpret relationships between quantities by evaluating, comparing, and modeling with functions.</p> <p>Calculate the volume of cones, cylinders and spheres to solve real world problems.</p>	<p>Apply properties of exponents to generate equivalent expressions.</p> <p>Perform operations with numbers expressed in scientific notation.</p>	<p>Apply the Pythagorean Theorem and its converse to solve real world problems.</p> <p>Know that there are numbers that are not rational, and approximate them by rational numbers.</p>	<p>Investigate patterns of association in bivariate data. <i>(Focus on modeling and interpreting.)</i></p>
<p><b>Required Fluencies</b> Quickly and accurately manipulate expressions and equations in one variable.</p>							
<p><b>High Leverage Concept</b> Demonstrate understanding of linear relationships using tables, graphs, equations, and verbal descriptions. Make connections among representations of linear relationships.</p> <ul style="list-style-type: none"> <li>● Graphing on a coordinate plane - including technology (Desmos, GeoGebra)</li> <li>● Find the linear rate of change between two quantities <math>x</math> and <math>y</math>.</li> </ul>							