

COACHELLA VALLEY UNIFIED SCHOOL DISTRICT

2023-24 Grade 7 Year at a Glance

ANYTHING UNDERLINED IS A LINK!

Assessment List

MAPS NEEDED TO CREATE GRADE LEVEL TRACKERS

Gr7\_Math\_CMap

Assessment Calendar

In seventh grade, students will begin the year by developing an understanding of operations with integers and then all rational numbers. A critical area of instruction in Math 7 is developing an understanding and application of proportional relationships, including percentages. Students use ratios in cases that involve pairs of rational number entries and compute associated rates. They identify unit rates in representations of proportional relationships and work with equations in two variables to represent and analyze proportional relationships. They also solve multi-step ratio and percent problems, such as problems involving percent increase and decrease. After having time to master integer operations, students will build on this understanding and use the arithmetic of rational numbers as they formulate expressions and equations in one variable and use these equations to solve real-world and mathematical problems. Students will extend their study of geometry as they solve problems involving scale drawings and informal geometric constructions. Students also work with two- and three-dimensional shapes to solve problems involving area, surface area, and volume. Students then are introduced to probability and come to understand the difference between theoretical and experimental probability. In grade seven, they extend their work with single data distributions to compare two different data distributions and address questions about differences between populations. They also begin informal work with random sampling.

Unit Numbers and Titles		By the end of grade 7, ...
Q 1	<a href="#">Unit 0: Introductory Week</a> (1 week) <b>Required Diagnostic: i-Ready (Aug 28 - Sept 22)</b>	<p><b>Math 7 students should master:</b></p> <ul style="list-style-type: none"> <li>• Fluency in arithmetic with integers</li> <li>• Write &amp; solve 2-step equations (<math>px + q = r</math> and <math>p(x + q) = r</math>)</li> <li>• Understanding proportional relationships in multiple representations (table, graph, equation, and scenario)</li> <li>• Applying proportional reasoning to percent scenarios</li> </ul> <p><b>Math 7 students work towards fluency in:</b></p> <ul style="list-style-type: none"> <li>• Solving multi-step equations/inequalities using properties of rational numbers.</li> <li>• Manipulating algebraic and numeric expressions by applying order of operations.</li> <li>• Applying statistical models to samples in order to generalize their properties to a population</li> <li>• Knowing and applying the formulas for volume/surface area of prisms and pyramids</li> <li>• Knowing and applying the formulas for area and perimeter of 2D figures</li> </ul> <p><b>Math 7 students are introduced to:</b></p> <ul style="list-style-type: none"> <li>• Interpreting, developing, and understanding probability models</li> <li>• Describing the shapes of cross sections of 3D solids</li> <li>• Using random sampling to draw inferences about a population</li> </ul>
	<a href="#">Unit 1: Integers and Operations with Rational Numbers</a> (6 weeks)	
	<a href="#">Unit 2a: Proportional Reasoning</a> (2 weeks) <i>(2 weeks Proportional Reasoning Intro + 5 wks in Q2)</i>	
Q 2	<a href="#">Unit 2b: Proportional Reasoning</a> (5 weeks)	
	<b>Required Benchmark #1 Gr7_Math_BM1 in MasteryConnect (Dec 4-Dec 15)</b>  <a href="#">Unit 3: Percent</a> (3-4 weeks) <b>Required Diagnostic: i-Ready (Jan 8-Feb 2)</b>	
Q 3	<a href="#">Unit 4: Expressions, Equations, and Inequalities</a> <i>(2 weeks EEI Intro + 6 weeks)</i>	
Q 4	<b>Required Benchmark #2 Gr7_Math_BM2 in MasteryConnect (Apr 8-Apr 19)</b>  <a href="#">Unit 5a: Geometry: Angles and Polygons</a> (2 wks)	
	<a href="#">Unit 5b: Circles, Area, Volume &amp; Surface Area</a> (3wks)	
	<a href="#">Unit 6: Probability</a> (2 weeks)	
	<a href="#">Unit 7: Statistics and Comparing Distributions</a> (2 wks) <b>Required Diagnostic: iReady (May 1-June 11)</b>	

