Correlation of CPM Core Connections, Course 3 to the Common Core State Standards Grade 8

This document identifies the lesson(s) in CPM Core Connections, Course 3 in which primary instruction of each standard from the Common Core State Standards for Mathematics, Grade 8 occurs.

The standards continue to be implemented, applied, and practiced throughout subsequent lessons. #.#.# refers to lessons in CPM Core Connections, Course 3. MN #.#.# refers to the Math Notes box in Lesson #.#.#, Checkpoint # refers to the Checkpoints problems in the back of the student textbook, and #-# refers to an instance of a homework problem in which the standard is implemented. The list of homework problems is by no means comprehensive, but rather intended as a sample.

Standard from CCSS Grade 8	Primary instruction for this standard and a few instances of homework in which the standard is implemented.
The Number System 8.NS	
Know that there are numbers that are not rational, and	
approximate them by rational numbers.	
8.NS.1. Know that numbers that are not rational are called irrational. Understand informally that every number has a decimal expansion; for rational numbers show that the decimal expansion repeats eventually, and convert a decimal expansion which repeats eventually into a rational number.	9.2.4 9-110, 9-116, 9-131, 10-12, 10-15, 10-28, 10-67
8.NS.2. Use rational approximations of irrational numbers to compare the size of irrational numbers, locate them approximately on a number line diagram, and estimate the value of expressions (e.g., π^2). For example, by truncating the decimal expansion of $\sqrt{2}$, show that $\sqrt{2}$ is between 1 and 2, then between 1.4 and 1.5, and explain how to continue on to get better approximations.	9.2.4 9-119, 10-46

Expressions and Equations 8.EE	
Work with radicals and integer exponents.	
8.EE.1. Know and apply the properties of integer exponents to generate equivalent numerical expressions. For example, $3^2 \times 3^{-5} = 3^{-3} = 1/3^3 = 1/27$.	8.2.1–8.2.3 8-47, 8-55, 8-66, 8-89, 8-95, 8-110, 8-136, 9-114, 9-133, 9-142, 9-158, 10-29, 10-68
8.EE.2. Use square root and cube root symbols to represent solutions to equations of the form $x^2 = p$ and $x^3 = p$, where p is a positive rational number. Evaluate square roots of small perfect squares and cube roots of small perfect cubes. Know that $\sqrt{2}$ is irrational.	9.2.3, 9.2.4, 10.1.1 9-89, 9-116, 9-157, 10-12, 10-13, 10-56, 10-77

8.EE.3. Use numbers expressed in the form of a single digit times an integer power of 10 to estimate very large or very small	8.2.1
quantities, and to express how many times as much one is than the	8-53, 8-54, 8-88, 8-94, 8-138,
other. For example, estimate the population of the United States as	9-66, 9-99, 9-113
3×10^8 and the population of the world as 7×10^9 , and determine	
that the world population is more than 20 times larger.	
8.EE.4. Perform operations with numbers expressed in scientific	
notation, including problems where both decimal and scientific	8.2.4
notation are used. Use scientific notation and choose units of	8-109, 8-125, 8-134, 10-65, 10-76
appropriate size for measurements of very large or very small	0 105, 0 125, 0 15 1, 15 05, 16 70
quantities (e.g., use millimeters per year for seafloor spreading).	
Interpret scientific notation that has been generated by technology.	
Understand the connections between proportional	
relationships, lines, and linear equations.	
8.EE.5. Graph proportional relationships, interpreting the unit rate	
as the slope of the graph. Compare two different proportional	1.2.1, Checkpoint 3 (3-117), 7.2.5
relationships represented in different ways. For example, compare	MN: 7.2.4
a distance-time graph to a distance-time equation to determine	
which of two moving objects has greater speed.	3-67, 3-117, 6-59, 7-75, 8-132
8.EE.6. Use similar triangles to explain why the slope <i>m</i> is the	
same between any two distinct points on a non-vertical line in the	4.1.4, 7.2.1–7.2.5
coordinate plane; derive the equation $y = mx$ for a line through the	4-38, 4-68, 4-72, 5-29, 7-105,
origin and the equation $y = mx + b$ for a line intercepting the	7-119
vertical axis at b .	7-117
Vertical axis at ν .	
Analyze and solve linear equations and pairs of simultaneous	
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8.EE.8c. Solve real-world and mathematical problems leading to two linear equations in two variables. For example, given coordinates for two pairs of points, determine whether the line through the first pair of points intersects the line through the second pair.

5.2.2–5.2.4

5-36, 5-67, 6-114, 8-131, 9-76, 10-79

Functions 8.F	
Define, evaluate, and compare functions.	
8.F.1. Understand that a function is a rule that assigns to each input exactly one output. The graph of a function is the set of	3.1.2–3.1.6, 8.3.1
ordered pairs consisting of an input and the corresponding output. (function notation not required)	3-125, 4-19, 4-75, 9-13, 9-92, 10-58
8.F.2. Compare properties of two functions each represented in a different way (algebraically, graphically, numerically in tables, or by verbal descriptions). For example, given a linear function represented by a table of values and a linear function represented by an algebraic expression, determine which function has the greater rate of change.	3.1.2–3.1.6, 4.1.1–4.1.7, Checkpoint 6 (6-109), 7.2.1 5-GW (p. 217), 6-32, 6-109
8.F.3. Interpret the equation $y = mx + b$ as defining a linear function, whose graph is a straight line; give examples of functions that are not linear. For example, the function $A = s^2$ giving the area of a square as a function of its side length is not linear because its graph contains the points $(1,1)$, $(2,4)$ and $(3,9)$, which are not on a straight line.	3.1.2–3.1.6, 7.2.1, 8.1.1, 8.1.3 3-76, 3-97, 3-105, 4-75, 6-41, 8-21, 8-58, 9-60
Use functions to model relationships between quantities.	
8.F.4. Construct a function to model a linear relationship between two quantities. Determine the rate of change and initial value of the function from a description of a relationship or from two (x, y) values, including reading these from a table or from a graph. Interpret the rate of change and initial value of a linear function in terms of the situation it models, and in terms of its graph or a table of values.	3.1.2–3.1.7, 4.1.1–4.1.7 4-25, 4-37, 4-79, 5-29, 5-65, 6-51, 6-72, 8-127, 9-64
8.F.5. Describe qualitatively the functional relationship between two quantities by analyzing a graph (e.g., where the function is increasing or decreasing, linear or nonlinear). Sketch a graph that exhibits the qualitative features of a function that has been described verbally.	8.3.1 1-50, 1-68, 4-53, 7-51, 9-46, 10-59, 10-71

Geometry 8.G	
Understand congruence and similarity using physical models,	
transparencies, or geometry software.	
8.G.1. Verify experimentally the properties of rotations,	
reflections, and translations:	
8.G.1a. Lines are taken to lines, and line segments to line segments of the same length.	6.1.1–6.1.3, 6.2.3
	6-28, 6-36, 6-106, 6-112, 7-11,
	7-83

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8.G.1b. Angles are taken to angles of the same measure.	6.1.1–6.1.3, 6.2.3
	6-28, 6-36, 6-106, 6-112, 7-11, 7-83
8.G.1c. Parallel lines are taken to parallel lines.	6.1.1-6.1.3, 6.2.3
	6-28, 6-36, 6-106, 7-11, 7-83
8.G.2. Understand that a two-dimensional figure is congruent to another if the second can be obtained from the first by a sequence	6.1.2-6.1.3, 6.2.3-6.2.4
of rotations, reflections, and translations; given two congruent figures, describe a sequence that exhibits the congruence between them.	6-28, 6-80, 6-108, 6-111, 8-143
8.G.3. Describe the effect of dilations, translations, rotations, and reflections on two-dimensional figures using coordinates.	6.1.2–6.1.3, 6.2.1–6.2.2, Checkpoint 8 (8-135)
	6-13, 6-27, 6-36, 6-46, 8-34, 8-69, 8-98, 8-135
8.G.4. Understand that a two-dimensional figure is similar to another if the second can be obtained from the first by a sequence	6.1.2-6.1.3, 6.2.2-6.2.4
of rotations, reflections, translations, and dilations; given two similar two-dimensional figures, describe a sequence that exhibits the similarity between them.	6-58, 6-92, 6-104, 6-108, 7-34
8.G.5. Use informal arguments to establish facts about the angle sum and exterior angle of triangles, about the angles created when	9.1.1–9.1.4
parallel lines are cut by a transversal, and the angle-angle criterion for similarity of triangles. For example, arrange three copies of the same triangle so that the sum of the three angles appears to form a line, and give an argument in terms of transversals why this is so.	9-8, 9-9, 9-21, 9-22, 9-33, 9-34, 9-45, 9-49, 9-56, 9-78, 9-155, 9-156, 10-61
Understand and apply the Pythagorean Theorem.	
8.G.6. Explain a proof of the Pythagorean Theorem and its converse.	9.2.2, 9.2.3, 9.2.7
8.G.7. Apply the Pythagorean Theorem to determine unknown side lengths in right triangles in real-world and mathematical	9.2.2, 9.2.5, 9.2.6
problems in two and three dimensions.	9-130, 9-139, 9-140, 9-144, 9-157, 10-14, 10-28
8.G.8. Apply the Pythagorean Theorem to find the distance between two points in a coordinate system.	9.2.5
section two points in a coordinate system.	9-110, 9-129, 9-149, 10-67
Solve real-world and mathematical problems involving volume	
of cylinders, cones, and spheres.	
8.G.9. Know the formulas for the volumes of cones, cylinders, and spheres and use them to solve real-world and mathematical	10.1.2–10.1.5
problems.	10-26, 10-41, 10-42, 10-55, 10-56, 10-65, 10-66, 10-73, 10-74

Statistics and Probability 8.SP	
Investigate patterns of association in bivariate data.	
8.SP.1. Construct and interpret scatter plots for bivariate	7.1.2, 7.1.3, Checkpoint 9 (9-50)
measurement data to investigate patterns of association between	7-17, 7-29, 7-72, 7-102, 7-103,
two quantities. Describe patterns such as clustering, outliers,	8-111, 9-10, 9-24, 9 ⁻ 50, 9-162
positive or negative association, linear association, and nonlinear	
association.	
8.SP.2. Know that straight lines are widely used to model	7.1.3, 7.3.2
relationships between two quantitative variables. For scatter plots	7.1.3, 7.3.2
that suggest a linear association, informally fit a straight line, and	7-30, 7-91, 7-102, 7-103, 7-112,
informally assess the model fit by judging the closeness of the data	8-113, 8-141, 9-50, 9-162
points to the line.	
8.SP.3. Use the equation of a linear model to solve problems in the	7.3.1, 7.3.2
context of bivariate measurement data, interpreting the slope and	
intercept. For example, in a linear model for a biology experiment,	7-30, 7-103, 9-50, 9-162
interpret a slope of 1.5 cm/hr as meaning that an additional hour	
of sunlight each day is associated with an additional 1.5 cm in	
mature plant height.	
8.SP.4. Understand that patterns of association can also be seen in	7.3.3
bivariate categorical data by displaying frequencies and relative	7.5.5
frequencies in a two-way table. Construct and interpret a two-way	7-110, 7-111, 8-11, 8-50, 8-97
table summarizing data on two categorical variables collected	
from the same subjects. Use relative frequencies calculated for	
rows or columns to describe possible association between the two	
variables. For example, collect data from students in your class on	
whether or not they have a curfew on school nights and whether or	
not they have assigned chores at home. Is there evidence that	
those who have a curfew also tend to have chores?	