

Petaluma Power Standards 2.0 Outline

6th Grade - 2011-2012

Below is an outline of which Power Standards will be assessed on each Trimester assessment and the correlated EnVision topics. Captured in the 6th Grade document is a *suggested* order of instruction. The 6th grade representatives to the k-6 math committee put these standards in the order they would teach them. This is just a suggestion and you can move through any trimester in a way that makes sense to you and your students. Each trimester benchmark will consist of the standards that are outlined in that trimester.

Trimester 1

Power Standards to be Assessed on Trimester 1 Benchmark:

NS2.3 Solve addition, subtraction, multiplication, and division problems, including those arising in concrete situations, that use positive and negative integers and combinations of these operations.

Topic 5

NS 1.3 Use proportions to solve problems (e.g., determine the value of N if $4/7 = N/21$, find the length of a side of a polygon similar to a known polygon). Use cross-multiplication as a method for solving such problems, understanding it as the multiplication of both sides of an equation by a multiplicative inverse.

Topics : 11 & 12
See also lesson 20-3

AF 2.2 Demonstrate an understanding that *rate* is a measure of one quantity per unit value of another quantity.

NS 2.1 Solve problems involving addition, subtraction, multiplication, and division of positive fractions and explain why a particular operation was used for a given situation.

Topics : 7, 9 & 10

Trimester 2

Power Standards to be Assessed on Trimester 2 Benchmark:

NS 1.4 Calculate given percentages of quantities and solve problems involving discounts at sales, interest earned, and tips.

Lessons : 8-2 & 8-4
& Topic 13

AF1.1 Write and solve one-step linear equations in one variable.

Topic 4 &
Lessons 14-2, 14-3

MG 1.2 Know common estimates of π (3.14; $22/7$) and use these values to estimate and calculate the circumference and the area of circles; compare with actual measurements.

Lessons 6-6; 16-4;
16-5

MG 2.2 Use the properties of complementary and supplementary angles and the sum of the angles of a triangle to solve problems involving an unknown angle.

Lessons 6-1; 6-2;
6-3; 6-4

Trimester 3

Power Standards to be Assessed on Trimester 3 Benchmark:

SDAP 1.4 Know why a specific measure of central tendency (mean, median) provides the most useful information in a given context.

} Lessons 19-1, 19-5

SDAP 2.2 Identify different ways of selecting a sample (e.g., convenience sampling, responses to a survey, random sampling) and which method makes a sample more representative for a population.

} Lessons 19-6, 19-7

SDAP 3.1 Represent all possible outcomes for compound events in an organized way (e.g., tables, grids, tree diagrams) and express the theoretical probability of each outcome.

} Topic 20 except 20-3