



July 2016

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THE STATE EDUCATION DEPARTMENT

How are the PLDs used in Assessment?

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
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Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Arithmetic with Polynomials & Rational Expressions (A-APR)	Apply the remainder theorem to determine the remainder on division by $(bx + a)$ and if $(bx + a)$ is a factor of $P(x)$.	Apply the remainder theorem to determine the remainder on division by $(x + a)$ and if $(x + a)$ is a factor of $P(x)$.	Apply the remainder theorem to determine if $(x + a)$ is a factor of $P(x)$.	Determine the remainder of $P(x)$ by evaluating $P(a)$.	

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Reasoning with Equations & Inequalities (A-REI)	Predict, without solving , when a radical or rational equation will have no real solutions and explain reasoning using mathematical evidence.	Solve radical and rational equations in one variable and identify extraneous solutions .	Solve radical and rational equations in one variable.	Solve a radical or a rational equation in one variable.	Verify that a number is a solution to a radical or rational equation.

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Interpreting					

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Linear, Quadratic, & Exponential Models (F-LE)	Construct and apply a linear				

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
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**Trigonometric
Functions**

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Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Interpreting Categorical & Quantitative Data (S-ID)	Generate and explain why scenarios may fit a normal distribution.	Interpret the mean and standard deviation of the normal distribution in the context of appropriate real-world scenarios.	Sketch a normal distribution model given the mean and standard deviation of a set of data.		
	Generalize how the normal distribution relates to the mean and standard deviation.	Use the normal distribution to estimate population percentages in real-world scenarios.			

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
Conditional Probability & the Rules of Probability (S-CP)	Construct and interpret a two-way table given a verbal description.	Calculate conditional probabilities given a two-way table.	Calculate probabilities given a two-way table.	Calculate relative frequencies given a two-way table.	
	Create, explain and interpret two independent events using concepts of conditional probability in verbal descriptions or two-way tables.	Explain why two events are independent using concepts of conditional probability in verbal descriptions or two-way tables.	Determine if two events are independent using concepts of conditional probability in verbal descriptions or two-way tables.		
		Calculate the conditional probability of A given B as the outcomes that also belong to A and interpret the answer in terms of the model.	Calculate the conditional probability of A given B given P(A and B) and P(B).	Identify P(A), P(A and B), and P(B).	
	Choose and apply appropriate subsets of a sample space in order to compute probabilities of events and interpret the results in the given context.	Apply subsets of a sample space in order to compute probabilities of events and interpret the results in the given context.	Apply subsets of a sample space in order to compute probabilities of events in the given context.	Identify subsets of a sample space.	List the sample space of a probability experiment.