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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	Apply the remainder theorem to	Apply the remainder	Apply the remainder	Determine the	
with	determine the remainder on	theorem to determine	theorem to determine if	remainder of $P(x)$ by	
Polynomials	division by (bx a) and if	the remainder on	(x a) is a factor of	evaluating P(a).	
& Rational	(bx a) is a factor of $P(x)$ .	division by $(x \ a)$ and	P(x).		
Expressions		if (x a) is a factor of			
		P(x).			
(A-APK)	Identify zeros of quadratic, cubic, and quartic polynomials and polynomials for which factors are not provided, and use the factors to graph the function in context.	Identify zeros of quadratic, cubic, and quartic polynomials and polynomials for which factors are not provided, and use the factors to graph the function.	Identify zeros of quadratic, cubic, and quartic polynomials and use the factors to graph the function.	Identify zeros of quadratic, cubic, and quartic polynomials.	Identify the zeros of a polynomial function given in factored form.
	Derive a polynomial identity and use the identity to <b>describe</b> numerical relationships in context.	Prove that a polynomial equation is an identity and use the identity to <b>describe</b> numerical relationships.	Prove that a polynomial equation is an identity.	Provide justification for a step of a given identity proof.	Provide evidence that an equation is an identity by substituting numerical values for the variables.

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

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,	Construct and apply a linear				
Quadratic, &					
Exponential					
Models					
(F-LE)					

Domain	NYS Level 5	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
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)	<b>Generate and explain</b> 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.	<b>Sketch</b> 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)	<b>Construct and interpret</b> a two- way table given a verbal description.	<b>Calculate conditional</b> <b>probabilities</b> given a two-way table.	<b>Calculate</b> <b>probabilities</b> given a two-way table.	Calculate <b>relative</b> <b>frequencies</b> given a two-way table.	
	<b>Create, explain and interpret</b> two independent events using concepts of conditional probability in verbal descriptions or two-way tables.	<b>Explain why</b> two events are independent using concepts of conditional probability in verbal descriptions or two-way tables.	<b>Determine if</b> 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 <b>interpret</b> 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).	
	<b>Choose and apply</b> appropriate subsets of a sample space in order to compute probabilities of events and interpret the results in the given context.	<b>Apply</b> 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.