									DATA ANALYSIS	& PROBABIL	TY (DP)								
Kinde	ergarten	Gr	ade 1	(Grade 2	G	rade 3	G	rade 4	(irade 5	(irade 6		Grade 7	(Grade 8		Grades 9-12
Develop an		Collect, represent		MA.2.DP.1 Collect, categorize,	MA.2.DP.1.1 Collect, categorize and represent data using tally marks, tables,	MA.3.DP.1 Collect, represent	MA.3.DP.1.1 Collect and represent numerical and categorical data with whole-			MA.5.DP.1 Collect, represent	MA.5.DP.1.1 Collect and represent numerical data, including fractional and	MA.6.DP.1 Develop an	MA.6.DP.1.1 Recognize and formulate a statistical question that would	MA.7.DP.1 Represent and	MA.7.DP.1.1 Determine an appropriate measure of center or measure of variation	MA.8.DP.1 Represent and	MA.8.DP.1.1 Given a set of real-world bivariate numerical data, construct a scatte	MA.912.DP.1 Summarize,	MA.912.DP.1.1 Given a set of data, select an appropriate method to represent the data, depending
understanding for collecting,	categories by counting the objects in each category. Report the results verbally, with a written	and interpret data using pictographs	marks or pictographs.	represent and interpret data	pictographs or bar graphs. Use appropriate titles, labels and units.	numerical and	number values using tables, scaled	and find the mode,	using tables, stem-and-leaf plots or line plots.	and find the mean,	decimal values, using tables, line	understanding of statistics and	generate numerical data.	and categorical	al to summarize numerical data, represented numerically or graphically, taking into	investigate numerical bivariate	plot or a line graph as appropriate	represent and interpret	on whether it is numerical or categorical data and on whether it is univariate or bivariate.
representing and comparing data.	numeral or with drawings.	and tally marks.		using appropriate titles, labels and		categorical data.	labels and units.	median and range of a data set.		mode, median or range of a data set		determine measures of center		data.	consideration the context and any outliers.	data.		categorical and numerical data	
			MA.1.DP.1.2 Interpret data represented with tally marks or pictographs by calculating the total number of data points and comparing the totals of different categories.	units.	MA.2.DP.1.2 Interpret data represented with tally marks, tables, pictographs or bar graphs including solving addition and subtraction problems.		MA.3.DP.1.2 Interpret data with whole-number values: represented with tables, scaled pictographs, circle graphs, scaled bar graphs or line plots by solving one- and two-step problems.		MA.4.DP.1.2 Determine the mode, median or range to interpret numerical data including fractional values, represented with tables, stem-and- leaf plots or line plots.		MA.5.DP.1.2 Interpret numerical data, with whole-number values, represented with tables or line plots by determining the mean, mode, median or range.	and measures of variability. Summarize statistical distributions graphically and numerically.	MA.6.DP.1.2 Given a numerical data set within a real-world context, find and interpret mean, median, mode and range.		MA.7.DP.1.2 Given two numerical or graphical representations of data, use the measure(s) of center and measure(s) of variability to make comparisons, interpret results and draw conclusions about the two populations.		MA.8.DP.1.2 Given a scatter plot within a real- world context, describe patterns of association.	with one and two variables.	MA.912.DP.1.2 Interpret data distrbutions represented in various ways. State whether the data is numerical or categorical, whether it is univariate or bivariate and interpret the different components and quantities in the display.
									MA.4.DP.1.3 Solve real-world problems involving numerical data.				MA.6.DP.1.3 Given a box plot within a real- world context, determine the minimum, the lower quartile, the median, the upper quartile and the maximum. Use this summary of the data to describe the spread and distribution of the data.		MA.7.DP.1.3 Given categorical data from a random sample, use proportional relationships to make predictions about a population.		MA.8.DP.1.3 Given a scatter plot with a linear association, informally fit a straight line.		MA.912.DP.1.3 Explain the difference between correlation and causation in the contexts of both numerical and categorical data.
													MA.6.DP.1.4 Given a histogram or line plot within a real-world context, qualitatively describe and interpre the spread and distribution of the data, including any symmetry, skewness, gaps, clusters, outliers and the range.		MA.7.DP.1.4 Use proportional reasoning to construct, display and interpret data in circle graphs.				MA.912.DP.1.4 Estimate a population total, mean or percentage using data from a sample survey; develop a margin of error through the use of simulation.
													MA.6.DP.1.5 Create box plots and histograms to represent sets of numerical data within real-world contexts.		MA.7.DP.1.5 Given a real-world numerical or categorical data set, choose and create an appropriate graphical representation.				MA.912.DP.1.5 Interpret the margin of error of a mean or percentage from a data set. Interpret the confidence level corresponding to the margin of error.
													MA.6.DP.1.6 Given a real-world scenario, determine and describe how changes in data values impact measures of center and variation.						

		MA.7.DP.2.1 Determine the sample space for	MA.8.DP.2	MA.8.DP.2.1	MA.912.DP.2		MA.912.DP.2.1 For two or more sets of numerical
	evelop all	Determine the sample space for simple experiment.	for a Represent and probabilities of	find Determine the sample space for repeated experiment.	Solve probler involving	ciiis	univariate data, calculate and compare the
probability. Find			repeated		univariate an	un d	appropriate measures of center and measures of variability, accounting for
and compare			experiments.		bivariate nun	umerical	possible effects of outliers. Interpret any notable features of the shape of the data
experimental and			experiments.		data.	ernedi	notable features of the shape of the data distribution.
theoretical	eoretical						
		MA.7.DP.2.2 Given the probability of a chan		MA.8.DP.2.2 Find the theoretical probabilit			MA.912.DP.2.2 Use the mean and standard deviation of a
Given 1 event,	e	Given the probability of a chan event, interpret the likelihood	ance d of it	Find the theoretical probabilit an event related to a repeated	/ of		Use the mean and standard deviation of a data set to fit it to a normal distribution
		occurring. Compare the		experiment.			and to estimate population percentages.
probat	p	probabilities of chance events.	s.				Recognize that there are data sets for which such a procedure is not appropriate.
		MA.7.DP.2.3		MA.8.DP.2.3			MA.912.DP.2.3
		Find the theoretical probability		Solve real-world problems			Estimate population percentages from data that has been fit to the normal distribution.
experi	e	an event related to a simple experiment.		involving probabilities related single or repeated experiment	l,		that has been fit to the normal distribution.
				including making predictions b	ased		
				on theoretical probability.			
MA.7	P	MA.7.DP.2.4					MA.912.DP.2.4
Use a :	U	Use a simulation of a simple					Fit a linear function to bivariate numerical
experi	e	experiment to find experiment probabilities and compare ther	ntal em to				data that suggests a linear association and interpret the slope and y-intercept of the
theore	p	theoretical probabilities.					model. Use the model to solve real-world
							problems in terms of the context of the
							data. MA.912.DP.2.5
							MA.912.DP.2.5 Given a scatter plot that represents
							bivariate numerical data, assess the fit of a
							given linear function by plotting and analyzing residuals.
							MA.912.DP.2.6 Given a scatter plot with a line of fit and
							Given a scatter plot with a line of fit and residuals, determine the strength and
							direction of the correlation. Interpret
							strength and direction within a real-world context.
							MA.912.DP.2.7
							Compute the correlation coefficient of a linear model using technology. Interpret
							the strength and direction of the
							correlation coefficient.
							MA.912.DP.2.8
							MA.912.DP.2.8 Fit a quadratic function to bivariate
							Fit a quadratic function to bivariate numerical data that suggests a quadratic
							Fit a quadratic function to bivariate numerical data that suggests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to
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							Fit a quadratic function to bivariate numerical data that suggets a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggets an
							Fit a quadratic function to bivariate numerical data that suggests a quadratic association and interpret any intercepts or bivarter of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggests an exponential association. Use the model to
							Fit a quadratic function to bivariate numerical data that suggets a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggets an
							Fit a quadratic function to bivariate minerical data that suggests a quadratic association and interpret any intercepts or the vertex of the models. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate minerical data that suggests an exponential association. Use the model to solve real-world problems in terms of the context of the data.
					<u>MA.912.DP.3</u>	<u>.3</u>	Fit a quadratic function to bivarite numerical data that suggests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA 912.DP.9.9 Fit an exponential function to bivariate numerical data that suggests an exponential suscetation. Use the model to solve real-world problems in terms of the context of the data. MA,912.DP.3.1
					Solve probler	<u>.3</u>	Fit a quadratic function to bivariate minerical data that suggests a quadratic association and interpret any intercepts or the vertex of the models. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate minerical data that suggests an exponential association. Use the model to solve real-world problems in terms of the context of the data.
					Solve probler	<u>.3</u> ems	Fit a quadratic function to bivarite minerical data that suggests a quadratic association and interpret any intercepts or the vertex of the models. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggests an exponential suscitation. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct at two-way frequency table summaring bivariate categorical data.
					Solve probler	• <u>.3</u> ems	Fit a quadratic function to bivarite momental data that suggests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA 912.DP.2.9 Fit an exponential function to bivariate municid data that suggests an exponential suscitation. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a two-way frequency table summaring bivariate caregorcial data
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					Solve probler	<u>.3</u> ems data.	Fit a quadratic function to bivarite minerical data that suggests a quadratic association and interpret any intercepts or the vertex of the models. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that suggests an exponential association. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Control: A to work "focusers' table summaring bivariate categorical data. Interpret joint and marginal frequencies and determine possible associations in terms of a real-world context. MA.912.DP.3.2
					Solve probler	<u>.a</u> ems data.	Fit a quadratic function to bivarite minerical data that surgests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Example of the data surgests an exponential suscession. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Contract a two every frequency table summarized model that because the summarized model and the surgest of the summarized model and the summarized model of solver and world problems in terms of the analysis of the surgest of the data. MA.912.DP.3.2 Green angingual and conditional relative frequencies, contract two way relative
					Solve probler	• <u>.3</u> ems data.	Fit a quadratic function to bivarite minerical data that surgets a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the omtext of the data. MA 912.DP.2.9 Fit an exponential function to bivariate manerical data that successful suggests an exponential suscessful suggests an exponential suscessful suggests an exponential suscessful suggests and summarized bivariate suggests and the real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a two-way frequency tables unmarizing bivariate suscessful suscessful suscessful sub- terms of a real-world context. MA.912.DP.3.2 Given marginal and conditional relative frequency cates summaring astronomical mean summaring bivariations of relative frequency cates summaring astronomical means and summaring astronomical summaring means and summaring astronomical means and summaring astronomical summaring astronomical means and summaring astronomi
					Solve probler	• <u>.3</u> ems data.	Fit a quadratic function to bivarite minerical data that surgests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Example of the data surgests an exponential suscession. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Contract a two every frequency table summarized model that because the summarized model and the surgest of the summarized model and the summarized model of solver and world problems in terms of the analysis of the surgest of the data. MA.912.DP.3.2 Green angingual and conditional relative frequencies, contract two way relative
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					Solve probler	<mark>1.3</mark> ems data.	Fit a quadratic function to bivarite minerical data that varies quadratic quadratic association and intergret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA 912.DP.3.9 Fit an separential function to bivariate minerical data that successful suggests an exponential successful suggests an exponential successful suggests an exponential successful suggests and summarized lavata that successful suggests and the context of the data. MA.912.DP.3.1 Construct a two-way frequency table summarizing bavatine successful successful successful terms of a real-world context. MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequencies data. MA.912.DP.3.3 Given a two-any relative frequency table summarising categorical bivariate data.
					Solve probler	<mark>:.3</mark> ems data.	Fit a quadratic function to bivaritie minerical data that surgests a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Context of the data surgests an exponential isosciation. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Contract a two way frequency table summarizing laws that caregorical data. Interpret joint and marginal frequencies and determine possible associations in terms of a real-world profile and data surgest and a surgest and data surgest and data surgest and a surgest and data su
					Solve probler	<u>'.3</u> ems data.	Fit a quadratic function to bivarite momencial data that surgets a quadrate association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA 912.DP.3.9 Fit an separential function to bivariate numerical data that successful asgets an exponential successful asgets and summarized bavate that successful as the real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a two-way frequency table summarizing bavate successful associations in terms of a real-world problems in terms of a real-world context. MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequencies data graph summarizing construct bay graph summarizing summarized bavate data using marget pro-
					Solve probler	<u>1.3</u> ems data.	Fit a quadratic function to bivarite minerical data that surgets a quadratic association and intergret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA 912.DP.3.9 Fit an separential function to bivariate minerical data that successful augusts an association. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a two-way frequency table summarizing bavanta base addetermine possible associations in terms of a real-world context. MA.912.DP.3.2 Given marginal and conditional relative frequencies, construct a two-way relative frequencies and and conditional relative frequencies and and conditional relative frequencies and a conditional relative frequencies and and and conditional relative frequencies and and and a relatived frequencies and and and conditional relative frequencies in terms and a relative frequencin terms and a relative frequencin terms and
					Solve probler	<mark>:.3</mark> ems data.	Fit a quadratic function to bivarite minerical data that surgets a quadratic association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an exponential function to bivariate numerical data that bivary exponential association. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Controls to how my features that the solution of the solution of the solution of the solution of the solution and determine possible associations in terms of a real-world context. MA.912.DP.3.2 Given any angular land conditional relative frequency table summarizing categorical bivariate data. MA.912.DP.3.3 Given a two way relative frequency table or genered bar graphs summarizing categorical bivariate data, interpret piont, magnal and conditional relative frequencies, construction relative frequencies in terms of a real-world context.
					Solve probler	: <u>3</u> ems data.	Fit a quadratic function to bivariet momental data that suggests a quadratic association and intergrets any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.2.9 Fit an sequential function to bivariate momental data that suggests an exponential association. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a two-way frequency table summarizing bivariate categorical data. Interpret point and marginal frequencies and determine possible associations in terms of a real-world context. MA.912.DP.3.2 Given atypical and conditional relative frequencies, construct a two-way relative frequencies, construct a two-way relative frequencies, construct a two- way relative frequencies, construct a two- way relative frequencies data and conditional relative frequencies data and conditional relative frequencies and and conditional relative frequencies and and conditional relative frequencies of a real-world context. MA.912.DP.3.3 (
					Solve probler	<u>.3</u> ems data.	Fit a quadratic function to bivariate momental data that surgets a quadrate association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 The angenerital function to bivariate numerical data that the uggets an exponential association. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Construct a how any frequency table summaring and that the regular of the context of the data. MA.912.DP.3.2 Given angenal sequence to MA.912.DP.3.3 Given a very clearter to now yr relative frequency table summarizing categorical bivariate data. MA.912.DP.3.3 Given a very exhibitive frequency table engenered barg angles summarizing categorical bivariate data, interpret joint margenal and contained relative frequences, internal or lear world context in the summarizing categorical bivariate data, interpret joint, margenal and contained relative frequences in terms of a real-world context in the summarizing categorical bivariate data.
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					Solve probler	<u>.3</u> ems data.	Fit a quadrate function to bivarite association and interpret any intercepts or the vertex of the model. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 This an exponential function to bivariate memorial data that bivary the solution exponential suscession. Use the model to solve real-world problems in terms of the context of the data. MA.912.DP.3.1 Contract a two very refeaturely table summarized and that the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution of the solution MA.912.DP.3.2 Green anginal and conditional relative frequencies, contract a two very relative frequencies and the summarizing categorical bivariate data. MA.912.DP.3.3 Green anginal and conditional relative frequencies interms of a real-world context. MA.912.DP.3.4 Green a relative frequency table con- segmented bar graph categorical bivariate data. MA.912.DP.3.4 Green a relative frequency table con- segmented bar graph categorical bivariate data.

MA.912.DP.5 Determine	MA.912.DP.5.1 Distinguish between a population parameter and a sample statistic.
methods of data collection and make inferences	MA.912.DP.5.2 Explain how random sampling produces data that is representative of a population.
from collected data.	MA.912.DP.5.3 Compare and contrast sampling methods.
	MA.912.DP.5.4 Generate multiple samples or simulated samples of the same size to measure the variation in estimates or predictions.
	MA.912.DP.5.5 Determine if a specific model is consistent within a given process by analyzing the data distribution from a data-generating process.
	MA.912.DP.5.6 Determine the appropriate design, survey, experiment or observational study, based on the purpose. Articulate the types of questions appropriate for each type of design.
	MA.912.DP.5.7 Compare and contrast surveys, experiments and observational studies.
	MA.912.DP.5.8 Draw inferences about two populations using data and statistical analysis from two random samples.
	MA.912.DP.5.9 Compare two treatments using data from an experiment in which the treatments are assigned randomly.
	MA.912.DP.5.10 Determine whether differences between parameters are significant using simulations. MA.912.DP.5.11 Evaluate reports based on data from
	diverse media, print and digital resources by interpreting graphs and tables; evaluating data-based arguments; determining whether a valid sampling method was used; or interpreting provided statistics.

MA.912.DP.6	MA.912.DP.6.1
Use probability	Define a random variable for a quantity o
distributions to	interest by assigning a numerical value to each individual outcome in a sample space
solve problems.	graph the corresponding probability
solve problems.	distribution using the same graphical
	displays as for data distributions.
	MA.912.DP.6.2
	Develop a probability distribution for a
	discrete random variable using theoretica probabilities. Find the expected value and
	interpret it as the mean of the discrete
	distribution.
	MA.912.DP.6.3
	Develop a probability distribution for a
	discrete random variable using empirical
	probabilities. Find the expected value and interpret it as the mean of the discrete
	distribution.
	MA.912.DP.6.4 Given a binomial distribution, calculate a
	interpret the expected value. Solve real-
	world problems involving binomial
	distributions.
	MA.912.DP.6.5
	Solve real-world problems involving
	geometric distributions. MA.912.DP.6.6
	NIA.912.DP.6.6 Solve real-world problems involving Poiss
	distributions.
	MA.912.DP.6.7
	Weigh the possible outcomes of a decisio
	by assigning probabilities to payoff values and finding expected values and standard
	deviations. Evaluate and compare
	strategies on the basis of the calculated expected values and standard deviations.
	expected values and standard deviations.
	MA.912.DP.6.8
	Apply probabilities to make fair decisions
	such as drawing from lots or using a
	random number generator