

Alignment of classroom activities and tools on Census at School with National Standards

		National Standards			
		In contexts that require them to solve problems or model situations, students will be able to:			
Level	Activity	By the end of year 5	By the end of year 6	By the end of year 7	By the end of year 8
3,4,5	Nosey Parker 1 introduces reading a table of data and asking questions of the data		investigate summary and comparison questions by using the statistical enquiry cycle: - gather or access multivariate category and whole-number data	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data
3,4,5	Nosey Parker 2 involves categorizing investigative questions.		investigate summary and comparison questions by using the statistical enquiry cycle: - gather or access multivariate category and whole-number data - sort data into categories or intervals, samples vary	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data
3	Masterpiece 1 Introduces investigating relationship between height and armspan.			investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where

					<p>appropriate</p> <ul style="list-style-type: none"> - interpret results in context, identifying factors that produce uncertainty
4,5,6	<p>Masterpiece 2</p> <p>Investigates the relationship between height and armspan</p>			<p>investigate relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>investigate relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4,5,6	<p>Masterpiece 3</p> <p>Involves displaying and analyzing data in multiple ways</p>			<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in

					context, identifying factors that produce uncertainty
4	Rumbling tummy Involves calculating percentages for different sample sizes				investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4,5	Speedster involves gathering and analyzing reaction times.			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in

					context, identifying factors that produce uncertainty
6	Scatter it introduces the scatter plot using height and age.			investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4	The case of the missing cake investigates the relationship between footlength and height.			investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4,5,6	Are you getting enough zzz? compares the			investigate comparison, questions by using the	investigate comparison questions by using the

	number of hours sleep for students with and without cellphones.			<p>statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4,5	8 glasses per day? investigates whether students get enough fluids	<p>investigate summary and comparison questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather, display, and identify patterns in category and whole-number data - interpret results in context 	<p>investigate summary and comparison questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and whole-number data - sort data into categories or intervals, display it in different ways, and identify patterns - interpret results in context, accepting that samples vary 	<p>investigate summary, questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>investigate summary, questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4	Posing summary investigative questions involves writing statistical questions to explore		<p>investigate summary and comparison questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and 	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p>	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p>

			<p>whole-number data</p> <ul style="list-style-type: none"> - sort data into categories or intervals, display it in different ways, and identify patterns - interpret results in context, accepting that samples vary 		
4	<p>Using data cards leads on from posing questions activity</p>			<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4	<p>Analysis tools involves investigating measurement data on census at school.</p>			<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations 	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying

				- interpret results in context, accepting that samples vary and have no effect on one another	patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
4	How high can you jump? Focuses on the planning stage			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
5	Armspans involves comparing boys and girls			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying

				- interpret results in context, accepting that samples vary and have no effect on one another	patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
5	Bear hugs 1 investigates average armspan				investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
5	Bear hugs 2 investigates relationship between armspan and age			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying

				- interpret results in context, accepting that samples vary and have no effect on one another	patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
5	Bear Hugs 3 involves comparing the armspans of boys and girls			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
5	Tell it like it is guides students through writing a conclusion				- interpret results in context, identifying factors that produce uncertainty
5	Cleaning data involves looking for unusual values				- sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate
4	Who wants to be a				express as fractions the

millionaire? investigates the probabilities associated with reaction times.				likelihoods of outcomes for situations involving chance
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Tools

	National Standards			
	In contexts that require them to solve problems or model situations, students will be able to:			
Tool	By the end of year 5	By the end of year 6	By the end of year 7	By the end of year 8
Dataviewer			investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
Tablemaker		investigate summary and comparison questions by using the statistical enquiry cycle: <ul style="list-style-type: none"> - gather or access multivariate category and 	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: <ul style="list-style-type: none"> - gather or access 	investigate summary, comparison, and relationship questions by using the statistical enquiry cycle: <ul style="list-style-type: none"> - gather or access

		<p>whole-number data</p> <ul style="list-style-type: none"> - sort data into categories or intervals, display it in different ways, and identify patterns - interpret results in context, accepting that samples vary 	<p>multivariate category and measurement data</p> <ul style="list-style-type: none"> - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>multivariate category, measurement, and time-series data</p> <ul style="list-style-type: none"> - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty
Random Sampler			<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category and measurement data - sort data and display it in multiple ways, identifying patterns and variations - interpret results in context, accepting that samples vary and have no effect on one another 	<p>investigate summary, comparison, and relationship questions by using the statistical enquiry cycle:</p> <ul style="list-style-type: none"> - gather or access multivariate category, measurement, and time-series data - sort data and display it in multiple ways, identifying patterns, variations, relationships, and trends and using ideas about middle and spread where appropriate - interpret results in context, identifying factors that produce uncertainty