Year 10 Statistics Curriculum Map

	Topic	Learning Objectives
1	Representing Data	Justify appopriate format to represent data
		Graphical misrepresentation
		Determine skewness by inspection
		Comparing Data sets represented in different formats
2	Measures of Central Tendancy	Averages from raw or grouped data
		Weighted mean
		Geometric mean
		Justify appropriate average to use in context
3	Measures of Dispersion	Range, quartiles, interquartile range (IQR), percentiles
		Interpercentile Range, Interdecile range
		Standard deviation
		Indentifying outliers by inspection
		Indentifying outliers by calculation
		Comment on outliers in context
		Compare data sets using appropriate measure of central tendancy and measure of dispersion
4	Scatter Diagrams and Correlation	Explanatory (independent) variables and response (dependent) variables
		Correlation
		Line of best fit
		Calculate Spearman's Rank correlation coefficient
		Interpret Spearman's Rank in context
		Interpret Pearson's Product moment correlation coefficient (PMCC) in context
		Understand the distinction between Spearman's Rank and Pearson's PMCC

5	Time Series	Averages from raw or grouped data
		Identifying trends
		Identifying seasonal and cyclical trends in context
6	Experimental and Theoretical Probability	Experimental and Theoretical Probability
7	Index Numbers	Index numbers
		Interpret data related to rates of change over time when given in graphical form
8	Measures of Dispersion	Compare data sets using appropriate measure of central tendancy and measure of dispersion
9	Probability Distribution	**Binomial distribution**
		Normal distribution
		Distribution
10	Quality Assurance	Know that a set of sample means are more closely distributed than individual values from the same population
		Control charts