Statistics Curriculum Intent and Overview

To develop the next generation of statisticians to be able to collect, analyse, interpret and present data and make sense of data in the real world.

Focus	Intent	
Understanding	To develop understanding of the statistical	
	enquiry cycle: collecting, interpreting, analysing	
	and presenting data and how this, along with	
	quality assurance, retail price index and making	
	predictions impacts industry and economics.	
Enquiry	To analyse and challenge the reliability of data in	
	real life and in the media such as government	
	statistics.	
Embedding knowledge	To develop retrieval skills to embed cumulative	
	knowledge.	
Progress Tracking	To closely monitor and track student progress to	
	ensure every student makes at least expected	
	progress.	
Academic Achievement	To continuously improve on the examination	
	success for all our students.	
Inspiration	To inspire the next generation of statisticians to	
	be able to understand and challenge data in	
	every-day life, in the media and in life beyond De	
	La Salle School	

	Autumn Term	Spring Term	Summer Term
Year 10	Collection of Data Describing data Grouping data Primary and secondary data Populations Petersen capture-recapture formula Random sampling Non-random sampling Stratified sampling Collection of data Questionnaires and interviews Problems with collected data Controlling extraneous variables Hypotheses Designing investigations 	Processing and Representing Data Tables Two-way tables Pictograms Bar charts Stem and leaf diagrams Pie charts Population pyramids Choropleth maps Frequency polygons Cumulative frequency charts The shape of a distribution Histograms Misleading diagrams Choosing the right format Summarising Data Averages Transforming data Geometric mean Weighted mean Measures of dispersion Standard deviation 	Scatter diagrams and correlation Scatter graphs Correlation Causal relationships Line of best fit Interpolation and extrapolation Spearman's rank correlation coefficient Pearson's product moment correlation coefficient Time Series Line graphs and time series Moving averages Estimating seasonal variations and making predictions

		 Skewness 	
		 Comparing data sets 	
		 Making estimates 	
Year 11	 Probability Experimental probability Using probability to assess risk Sample space diagrams Venn diagrams Mutually exclusive and exhaustive events The general addition law Independent events Tree diagrams Conditional probability Index numbers Index numbers RPI, CPI AND GDP Chain based index numbers Rates of change Probability Distributions Binomial distributions 	Focused revision of topics identified from mini mocks and mock exams	Preparation for Exams
	 Normal distributions Standardised scores Quality assurance and control charts 		