Lode Heath School (GCSE Statistics)



ignment Title Measures of Central Tendency	Date set	Autumn 2	Hours	15
nmary of Unit 3	Key Words			
pe able to calculate arithmetic, weighted an	Mean, median, mode, range, upper quartile, lower quartile,			
an for discrete and grouped data	interquartile range, percentiles, deciles, weighted mean,			
npare different data sets using appropriate	geometric mean, seasonal variation, interpercentile range,			
asures of spread	interdecile range, standard deviation, variation, outliers, index			
and calculate standard deviation for a data	numbers, weighted numbers, retail index price, consumer price			
index and weighted numbers in context	index, gross domestic product			
or Knowledge				
(1) Name the different averages				
(2) Here is a list of numbers.				
4 8 5	9 10	5	6 3	4
Work out the median. Work out the mean.				

LEARNING JOURNEY

Level	Task Description
3-4	Calculate mean, median and mode for discrete and grouped data.
3-4	Estimate mean from grouped data
	<u> </u>
4-6 (H)	Calculate weighted mean, geometric mean
7-8 (H)	Use interpolation to calculate an estimate for the median from histograms and grouped frequency
	tables.
4-5	Understand the effect on the mean, mode and median with transformed data.
	Justify rationale for selecting appropriate types of averages in context.
4-5	Calculate different measures of spread; range, quartiles, interquartile range.
	Compare different data sets using appropriate calculated or given measure of spread and central
	tendency
6-7 (H)	Calculate the interpercentile and interdecile range.
	Calculate standard deviation for discrete and continuous data.
4-5	Construct, use and interpret box plots from summary statistics and cumulative frequency graphs.
	Use box plots as a method to compare data.
5-6	Identify outliers by inspection
	Calculate outliers (H)
	Comment on outliers with reference to the original data
5-7	Use calculated values or given measures of spread and tendency to compare data samples and to
	compare sample data with population data
6	Determine skew by inspection
	Determine skew by calculation (H)