



Oxford City Schools

Proficiency Scale

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GRADE LEVEL: 09 COURSE NAME: Geometry with Data
MEASUREMENT TOPIC: Model & Analyze Data

4	In addition to Score 3, the student makes in-depth inferences and applications.
3	The student can: <ul style="list-style-type: none">• Use statistics appropriate to the shape of the data distribution to compare and contrast two or more data sets<ul style="list-style-type: none">• Utilize the mean and median for center• Utilize the interquartile range and standard deviation for variability• Interpret possible effects of extreme data points (outliers) on measures of center or spread• Use mathematical and statistical reasoning with univariate data (set of values) in order to draw conclusions and assess risk.• Use linear models to evaluate possible solutions and predict unknown values.
2	The student can: <ul style="list-style-type: none">• Represent the distribution of univariate and bivariate quantitative data with plots on the real number line, choosing a format most appropriate to the data set<ul style="list-style-type: none">• Box plots, dot plots, histograms• Scatter Plots• Calculate and model measures of center & spread using online software.<ul style="list-style-type: none">• Calculate mean and median for center.• Calculate range, IQR, and standard deviation for spread.• Use the collected data to determine the correlation coefficient between two variables.

1

With help, a partial understanding of some of the simpler details and processes and some of the more complex ideas and processes.

Key Vocabulary: