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| Year: **8/9** KLA: **Mathematics** Assessment name: **What’s in a Name?** | | | | Student | | | |
| Purpose: *To gather data, display data in various ways and analyse data to make inferences and generalisations to support predictions regarding the design of a letter-insert pencil case.* | | | | | | | |
| Thinking & Reasoning | Knowledge & Understanding | Knowledge & Understanding | Thinking & Reasoning | | Communicating |  |
| *Develops hypotheses and predictions based on length of, and characters in, a name.* | *Uses suitable representations and descriptive statistics to simplify data interpretation* | *Uses simple measures of spread and centre to make inferences* | *Evaluates own thinking and reasoning using collected data.* | | *Communicates thinking and justifies reasoning, using appropriate mathematical language, representations and technologies.* |  |
|  | * Data collected from a significant sample and clearly and accurately summarised and presented, with insightful comparisons made. | * Comprehensive knowledge and understanding of measures of centre and spread | * All predictions and results are clearly justified by mathematical interpretations of collected data. | | * Clear and consistent communication and justification of thinking and reasoning using mathematical language, representations and technologies. | A |
| * Prediction of realistic results and well-defined results table are supported by a comprehensive and insightful description. |  |  |  | |  |
|  |  | * Thorough knowledge and understanding of measures of centre and spread |  | |  | B |
| * Prediction of realistic results and results table are supported by a relevant description. | * Data collected is clearly summarised and presented and relevant comparisons made. |  |  | |  |
|  |  | * Satisfactory knowledge and understanding of measures of centre and spread | * Explanations of predictions are based on some mathematical interpretation of source. | | * Communication and justification of thinking and reasoning using appropriate mathematical language, representations and technologies. | C |
| * Prediction of results and results table are relevant. Cursory description given. | * Data collected is summarised and presented and superficial comparisons made. |  |  | |  |
|  |  | * Can accurately locate the mean of a set of numbers. |  | |  | D |
|  |  |  | * An explanation is provided. | | * Everyday language is used. |
| * Makes a cursory prediction of results. | * Data is collected and totalled. | * Uses ‘average’ in a colloquial, vernacular way. |  | |  | E |
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