


<p>Statistics</p> <p>Level 5 Strand: Statistics Time: 3 Weeks</p>		
<p>Key Competencies:</p>	<p>Achievement Objectives:</p>	<p>Learning Outcomes:</p>
<p>Thinking</p> <ul style="list-style-type: none"> Using graphic organisers and spreadsheets Making predictions Drawing conclusions from data sets 	<p>Statistical Literacy</p> <ul style="list-style-type: none"> Evaluate statistical investigations or probability activities undertaken by others, including data collection methods, choice of measures and validity of findings. 	<ul style="list-style-type: none"> Specific Strategies Resources attached discuss appropriate graph for a range of different data sets given 10 ticks tasks as listed below
<p>Literacy: using language, symbols and texts:</p> <ul style="list-style-type: none"> Students will calculate measures of central tendency and spread. Students will display data sets on appropriate graphs 	<p>Purpose</p> <ul style="list-style-type: none"> Making links between contextual language and mathematical terms Finding appropriate means for presenting data Writing meaningful and valid conclusions 	<ul style="list-style-type: none"> Relevant tasks/activities/content Cricket graphs assignment attached
<p>Managing Self:</p> <ul style="list-style-type: none"> organising, analysing and presenting data correctly and efficiently Drawing valid conclusions independently 	<ul style="list-style-type: none"> Collect, calculate and record data in context 	<ul style="list-style-type: none"> Cricket graphs assignment attached

Key Vocabulary:
mean median mode
range IQ range box and whisker

bar/column graph pie graph cumulative frequency graph

Assessment:

Diagnostic What do they know? What can they know?	Formative What are they learning? What do they need to learn?	Summative What have they learned? Can students articulate how they learned it? Student evaluation/reflection
<ul style="list-style-type: none"> • Asttle pretest showing ability as measured against the statistics strand, level 5) 	<ul style="list-style-type: none"> • Processing and displaying data 	<ul style="list-style-type: none"> • Comprehensive graphs are produced from the data • Valid conclusions are drawn

Resource and Teaching Order List:

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|--------------------------------------------|-------------------------------------------------------------------------------------------------------------|
| 1.
pages 3 – 14 | Mode, median, mean and range 10 Ticks Level 5 Pack 6 |
| 2.
3.
Ticks Level 7-8 Pack 6 page 41 | Pie Charts 10 Ticks Level 6 Pack 6 pages 11 – 14
Cumulative frequency graphs and inter quartile range 10 |
| 4.
5. | Use of Spreadsheet to construct graphs
Cricket graphs assignment (allow up to 2 weeks) |