

## Algebra Unit 6: Statistics

**Universal Essential Question: Why is resilience an influence on success?**

**Essential Question: How does mathematics predict the future?**

Learning Objectives	Self-Rating, evidence from my INB and practice papers		
At the completion of this unit, I should ...	0 – I have no idea. 1 – I cannot solve problems yet but I am beginning to understand the strategies 2 – I can solve problems but do not yet know why the math works. 3 – I understand why the math works and can solve most problems but still make mistakes. 4 – I understand why the math works and can consistently and accurately solve problems.		
<b>Know</b> – Vocabulary related to statistics – Which measure of center and spread best describes a set of data			
<b>Be able to</b> – Distinguish between categorical and quantitative data – Determine a measure of center (mean, median, mode) – Determine a measure of spread (range, IQR, standard deviation) – Graph quantitative and categorical data using appropriate graphs – Represent and interpret data – Represent and interpret data on two categorical variables – Represent and interpret data on two quantitative variables – Compare quantitative data through graphs – <b>Compare categorical data through a 2-way table</b>			
<b>Understand</b> – How to describe data using SOCS			

## **Vocabulary**

Sample	line graph	Median	inner quartile range
Population	bar graph	5 number summary	SOCS
Quantitative data	circle graph	Mode	outliers
categorical data	stem and leaf plot	standard deviation	Marginal distributions
histogram	box and whisker plot	mean absolute deviation	relative frequencies
frequency table	Mean	range	two way tables