**Unit 7- Statistics, Part 1**

**Length: 3 weeks**

**Test Date: Friday, September 23rd**

**Periods: 1, 2, 3, 5**

**Week 1: 09/06/2016 – 09/09/2016**

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| **Standards** | MGSE9-12.S.ID.2- use statistics app. To the shape of the Data distribution to compare center and spread of 2 or more data sets |
| **Vocabulary** | Measures of central tendencies, measures of dispersion, mean, median, mode, range, IQR, lower quartile, upper quartile |
| **EQs** | What is the difference between the measures of central tendency and the measures of dispersion? |
| **Assessments/Notes** | First 2 days of school- talk about class expectations, school rules and guidelines. Also, talk about the INB and begin the set up of the INB |

**Week 2: 09/12/2016 – 09/16/2016**

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| **Standards** | MGSE9-12.S.ID.2  MGSE9-12.S.ID.4- Use the mean and standard deviation of a data set to fit it to a normal distribution and to estimate population percentages. |
| **Vocabulary** | Measures of central tendencies, measures of dispersion, mean, median, mode, range, IQR, lower quartile, upper quartile, box/whisker plot, standard deviation, Sigma, difference, consistent |
| **EQs** | 1. What is the difference between the measures of central tendency and the measures of dispersion? 2. What is the normal curve? How does it relate to mean and standard deviation? 3. How can you display data? |
| **Assessments/Notes** | Beginning of the week- finish material from previous week, show students how to display data using a frequency table and histogram  Quiz- Wednesday or Thursday  Friday- foldable with Normal Curve |

**Week 3: 09/19/2016 – 09/23/2016**

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| **Standards** | MGSE9-12.S.ID.2  MGSE9-12.S.ID.4 |
| **Vocabulary** | New- normal curve, bell curve, empirical rule, standard deviations, z score, probability, cross multiply, decimal, percentage  Measures of central tendencies, measures of dispersion, mean, median, mode, range, IQR, lower quartile, upper quartile, box/whisker plot, standard deviation, Sigma, difference, consistent |
| **EQs** | 1. What is the normal curve? How does it relate to mean and standard deviation? 2. How do I decide if the normal distribution describes a set of data? 3. When do I use the normal distribution to estimate probabilities? |
| **Assessments/Notes** | Beginning of the week- Normal Curve/Probabilities’/Percentages  Have Review ready for students no later than Wednesday  Thursday Review All Day  Friday TEST!!!! |