Topic 5 Outline - ALGEBRA 1/ HONORS

**STATISTICAL MODELS**

**11/13 – Monday – Section 8.1 – Two Way Frequency Tables (MAFS.912.S-ID.2.5)**

**Essential Question:** How can categorical data for two categories be summarized?

**Vocabulary:** quantitative data, categorical data, frequency, two way frequency table

**Classwork:** Evaluate pg. 351-356 # 1-24 all Online book

**Home Learning:** Complete online assignment 8.1

**11/14-11/15 Tuesday/Wednesday – Section 8.2 – Relative Frequency (MAFS.912.S-ID.2.5)**

**Essential Question:** How can you recognize possible associations and trends between two categories of categorical data?

**Vocabulary:** relative frequency, joint relative frequency, marginal relative frequency, conditional relative frequency

**Classwork:** Evaluate pg. 365-368 #1-21 all Online book

**Home Learning:** Complete online assignment 8.2

**11/16-11/17 Thursday/Friday – Section 9.1 – Measures of Center and Spread (MAFS.912.S-ID.1.2)**

**Essential Questions:** How can you describe and compare data sets?

**Vocabulary:** mean, median, range, quartiles, first quartile, second quartile, third quartile, interquartile, standard deviation

**Classwork:** Evaluate pg. 384-386 # 1-21 all Online book

**Home Learning:** Complete online assignment 9.1

**11/20-/11/21 Monday/Tuesday – Section 9.2 – Data Distributions and Outliers (MAFS.912.S-ID.1.1,1.2,1.3)**

**Essential Questions:** What statistics are most affected by outliers, and what shapes can data distributions have?

**Vocabulary:** dot plot, outlier, statistics, symmetric, skewed to the left, skewed to the right

**Classwork:** Evaluate pg. 396-398 # 1-14 all Online book

**Home Learning:** Complete online assignment 9.2

**11/27-/11/28 Monday/Tuesday – Section 9.3 – Histograms and Box Plots (MAFS.912.S-ID.1.2)**

**Essential Questions:** How can you interpret and compare data sets using data displays?

**Vocabulary:** histogram

**Classwork:** Evaluate pg. 410-414 # 1-19 all Online book

**Home Learning:** Complete online assignment 9.3

**11/29 Wednesday – Section 9.4 – Normal Distributions (MAFS.912.S-ID.1.2)**

**Essential Questions:** How can you use characteristics of a normal distribution to make estimates and probability predictions about the population that the data represents?

**Vocabulary:** normal distribution, normal curve

**Classwork:** Evaluate pg. 423-424 # 1-10 all Online book

**Home Learning:** Complete online assignment 9.4

**11/30 – 12/1 Thursday/Friday - Section 10.1 – Scatter Plots and Trend Lines (MAFS.912.S-ID.2.6,3.7,3.9)**

**Essential Questions:** How can you describe the relationship between two variables and use it to make predictions?

**Vocabulary:** two variable data, scatter plot, correlation, correlation coefficient, line of fit, interpolation, extrapolation

**Classwork:** Evaluate pg. 443-446 # 1-16 all Online book

**Home Learning:** Complete online assignment 10.1

**12/4 Monday - Section 10.2 – Fitting a Linear Model to Data (MAFS.912.S-ID.2.6,3.8)**

**Essential Questions:** How can you use the linear regression function on a graphic calculator to find the line of best fit for a two data set?

**Vocabulary:** residual, residual plot, the least squares line, line of best fit, linear regression

**Classwork:** Evaluate pg. 459-463 # 1-16 all Online book

**Home Learning:** Complete online assignment 10.2

**12/5 – Tuesday – Test Review**

**12/6 – Wednesday – Topic Assessment**