Decision 1: Curriculum Map **Course: Algebra I B**

Topic: A1.2.1 Functions

Key Learning(s): The students will
1. A1.2.1.1 Analyze and/or use patters or relations

Optional Instructional Tools:

Unit Essential Question(s):
How do you analyze and use patterns or relations?

Concept: A1.2.1.1.1 Analyze a set of data for the existence of a pattern and represent the pattern algebraically and/or graphically	**Concept:** A1.2.1.1.2 Determine whether a relation is a function, given a set of points or a graph.	**Concept:** A1.2.1.1.3 Identify the domain or range of a relation (may be presented as ordered pairs, a graph, or table)
Lesson Essential Questions: How do you represent algebraically or graphically a set of data of a pattern?	**Lesson Essential Questions:** How do you determine whether a set of points or a graph represents a function?	**Lesson Essential Questions:** When given a set of ordered pairs, a graph or table how is the domain and range identified?
Vocabulary: algebraic, graphic, data, pattern	**Vocabulary:** Function, set	**Vocabulary:** Ordered pairs, x coordinate, y coordinate, domain, range

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions: 1.	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:
2.8.A1.C; 2.8.A1.D;

Topic: A1.2.1

Key Learning(s): The students will interpret and/or use linear function and their equations, graphs, or tables, A1.2.1.2

Optional Instructional Tools:

Unit Essential Question(s):
How do you interpret and use linear functions and their equation, graphs, or tables?

Concept: A1.2.1.2.1 Create, interpret, and/or use the equation, graph, or table a linear function	**Concept:** A1.2.1.2.2 Translate from one representation of a linear function to another (i.e. graph, table, and equation)	**Concept:**
Lesson Essential Questions: What is the process to create, interpret and use the equation or table in a linear function?	**Lesson Essential Questions:** How can you translate from one representation of a linear function to another?	**Lesson Essential Questions:** 1.
Vocabulary: equation, linear function	**Vocabulary: translate, linear function**	**Vocabulary:**

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions: 1.	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:

Topic:

Key Learning(s): The students will

1. **A1.2.2.1 Describe, compute, and/or use the rate of change (slope) of a line.**

Optional Instructional Tools:

Unit Essential Question(s):
When given a line how can you describe, compute and use the rate of change?

Concept: **A1.2.2.1.1 Identify, describe, and/or use constant rates of change**	**Concept:** A1.2.2.1.2 Apply the concept of linear rate of change (slope) to solve problems	**Concept:** A1.2.2.1.3 Write or identify a linear equation when given The graph of the line Two points on the line, or The slope and a point on the line Note; Linear equation may be in point-slope, standard, and/or slope-intercept form
Lesson Essential Questions: What is the process to identify, describe and use constant rate of change?	**Lesson Essential Questions:** How do you apply the concept of linear rate of change to solve problems?	**Lesson Essential Questions:** When given a graph of the line, two points or the slope and a point on the line how do you write or identify the linear equation?
Vocabulary: rate of change, constant	**Vocabulary:** Linear rate, slope	**Vocabulary:** Linear equation, slope intercept form, point slope form

Concept: A1.2.2.1.4 Determine the slope and/or y-intercept represented by a linear equation or graph	**Concept:**	**Concept:**
Lesson Essential Questions: **How do you determine the slope and y-intercept when it's represented by a linear equation or graph?**	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:**
Vocabulary: **Y intercept, slope, linear equation**	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:

2.9.A1.C; 2.8.A1.D

Topic: Coordinate Geometry

Key Learning(s): The students will
A1.2.2.2 Analyze and/or interpret data on a scatter plot.

Optional Instructional Tools:

Unit Essential Question(s):
What and how do you analyze and/or interpret data on a scatter plot?

Concept: A1.2.2.2.1 Draw, identify, find, and/or write an equation for a line of best fit for a scatter plot	**Concept:**	**Concept:**
Lesson Essential Questions: How to you draw, identify, find and write an equation of best fir for a scatter plot?	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:** 1.
Vocabulary: **Line of best fit, scatter plot**	**Vocabulary:**	**Vocabulary:**

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions: 1.	**Lesson Essential Questions:**	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:
2.6.A.1.C

Topic: Module 2: A1.2.3 Data Analysis

Key Learning(s): The students will
A1.2.3.1 Uses measures of dispersion to describe a set of data

Optional Instructional Tools:

Unit Essential Question(s):
How do you use the measure of dispersion to describe a set of data?

Concept: A1.2.3.1.1 Calculate and/or interpret the range, quartiles, and interquartile range of data	**Concept:**	**Concept:**
Lesson Essential Questions: How do you calculate and interpret the range, quartiles, and interquartile range of data?	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:** 1.
Vocabulary: Range, quartiles, interquartile	**Vocabulary:**	**Vocabulary:**

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions:	**Lesson Essential Questions:**	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:
2.6.A1.c

Topic: Data Analysis

Key Learning(s): The students will use data displays in problem-solving settings and/or to make predications
A1.2.3.2

Optional Instructional Tools:

Unit Essential Question(s):
What is do you need in order to make predication when given data displays in problems solving settings and/or to make predications?

Concept: A1.2.3.2.1 Estimate or calculate to make predications based on a circle, line, bar graph, measures of central tendency, or other representations	**Concept:** A1.2.3.2.2 Analyze data, make predications, and/or answer questions based on displayed data.	**Concept:** A1.2.3.2.3 Make predications using the equations or graphs of best-fit lines of scatter plots
Lesson Essential Questions: When given a circle, bar graph, measures of central tendency or other representations how do you estimate or calculate to make predications from the data given?	**Lesson Essential Questions:** What do you need in order to analyze date, make predications, and/or answer questions based on the data.	**Lesson Essential Questions:** How can you make predication using equations or graphs of best-fit lines of scatter plots?
Vocabulary: Circle graph, bar graph, measure of central tendency, prediction	**Vocabulary:** analyze	**Vocabulary:** Best fit line, scatter plot

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions: 1.	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:
2.6.A1.E

Topic:

Key Learning(s): The students will
A1.2.3.3 Apply probability to practical situations

Optional Instructional Tools:

Unit Essential Question(s):
How do you solve and apply probability of practical situations.

Concept: A1.2.3.3.1 Find probabilities for compound events and represent as a fraction, decimal, or percent	**Concept:**	**Concept:**
Lesson Essential Questions: When given compound events how do you find the probabilities of the events and represent it.	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:** 1.
Vocabulary: Compound events, probability	**Vocabulary:**	**Vocabulary:**

Concept:	**Concept:**	**Concept:**
Lesson Essential Questions: 1.	**Lesson Essential Questions:** 1.	**Lesson Essential Questions:**
Vocabulary:	**Vocabulary:**	**Vocabulary:**

Attached Document(s):

Additional Info:
2.7.A1.A