Algebra I Honors Unit 5: Writing Linear Equations

	- Muiting linear equations is a complementation built
Essential	 Writing linear equations is a very important algebraic skill.
Understandings	
ondorotandingo	How do you write an equation is slope intercept form?
Essential	 How do you write an equation given two points?
Questions	 What is the "standard" form of an equation?
	 What makes lines perpendicular to each other?
	 What makes lines parallel to each other?
	 How can you model data with the best-fitting line?
	 Slope-intercept form of an equation is y=mx+b.
Essential	 "Standard" form of an equation is Ax+By =C.
Knowledge	 Perpendicular lines have slopes that are reciprocals and opposites.
5	 Parallel lines have the same slopes.
	 Understand the difference between correlation and causation.
	 Linear regression creates the line of best-fit.
	 The line of best-fit can be used for interpolation not extrapolation.
	Terms:
Vocabulary	 Standard form, slope-intercept form, perpendicular/parallel lines.
	 Scatter plot, correlation, causation, line of best-fit, linear regression,
	interpolation, and extrapolation.
	 Write the equation for a line given slope and y-intercept.
Essential	 Write the equation for a line given slope and a point.
Skills	 Write the equation for a line given slope and y-intercept given two points.
	 Find slope of a line.
	 Write an equation for a line in "standard" form.
	 Write the equation for perpendicular lines.
	 Write the equation for parallel lines.
	 Perform and interpret linear regression models using technology.
Related	D. Algebra-Equations and Inequalities
Maine Learning	D. Algebra-Functions and Relations
Results	
Sample	 Students will orally respond to questions.
Lessons	 Students will utilize worksheets and in their notes to demonstrate individual
And	understanding of the concepts.
Activities	
Sample	 Quizzes, take-home worksheets, and tests.
Classroom	
Assessment	
Methods	 Publications: Algebra 1 Textbook (Larson)
Sample Resources	<u>I donoditorio</u> . / ligobra i roxibook (Editori)
Technology	
Link	http://www.brunswick.k12.me.us/curriculum
LIIK	