

Learning Works Charter School

LEARNING WORKS

Algebra 1A Module 4

Student N	ame: Teacher Name:
conjecture that's okay	ork through the chapters in your Algebra 1 course, you will be encouraged to think and to make so while you persevere through challenging problems and exercises. You will make errors – and or! Learning and understanding occur when you make errors and push through mental roadblocks to and solve new and challenging problems.
Text: Alg	ebra 1 Common Core, Big Ideas, 2015
	To ensure you are learning, you must show your work for all exercises. YOU WILL NOT EARN CREDIT FOR ANSWERS WITHOUT WORK.
Chapter	4: Writing Linear Functions (4.1-4.4, 4.6)
	Maintaining Mathematical Proficiency (page 163): Complete exercises #1-10 all 4.1 Writing Equations in Slope-Intercept Form: Read the lesson and complete exercises #3, 4, 5, 7, 8, 9, 10, 13, 14, 15, 19, 20, 27, 38, 39, 40
	4.2 Writing Equations in Point-Slope Form: Read the lesson and complete exercises #1-10 all, 15, 16, 17, 21, 22, 32, 41, 42, 43, 44
	4.3 Writing Equations of Parallel and Perpendicular Lines: Read the lesson and complete exercises #1, 2, 3, 4, 9, 10, 19, 20, 25, 26
	4.4 Scatter Plots and Lines of Fit: Read the lesson and complete exercises #3-7 all, 9, 10, 12, 25, 26, 27
	4.6 Arithmetic Sequences: Read the lesson and complete exercises #1, 3, 4, 5, 6, 11, 12, 13, 17, 18, 19, 31, 33, 36, 39, 43
	4.7 Piecewise Functions: Read the lesson and complete exercises #3-8 all, 13, 23, 24, 31, 57, 59
Students	must complete the Chapter Review and Project with a teacher or tutor at school.
	Chapter Review (pages 208-210): Complete exercises #1-29 all Complete the attached Project (No project = No credit)
A teache	r or tutor reviewed the Chapter Review and Project with the student.
Date:	Signature:

Grade

Algebra 1 Project Module 4: Writing Linear Functions Textbook Pages: 173-230

Any Beginning

With so many ways to represent a linear relationship, where do you start? Use what you know to move between equations, graphs, tables and contexts.

Each cell of the matrix contains a different format for the same problem. For each problem, start with the given information and fill in the rest of the chart. Each time, you will start in a different place.

1. Table: (4, 4), (8, 5), (-4, 2)

Situation	Table	Slope-Intercept Form
An international call requires \$3 to connect and \$0.25 for each additional minute.	X Y	
Graph	Standard Form	Points in Functional Notation
Point-Slope Form	Equation of a Parallel Line	Equation of a Perpendicular Line

2. Situation: The photography studio charges an initial fee of \$35 and \$5 for each picture.

Situation	Table	Slope-Intercept Form
	X Y	
Graph	Standard Form	Points in Functional Notation
Point-Slope Form	Equation of a Parallel Line	Equation of a Perpendicular Line

3. Standard form: 4x - y = -3

Situation	Table	Slope-Intercept Form
	X Y	
Graph	Standard Form	Points in Functional
		Notation
Point-Slope Form	Equation of a Parallel Line	Equation of a Perpendicular Line