Learning Works Charter School

## Algebra 1 A <br> Module 4

Student Name: $\qquad$ Teacher Name: $\qquad$
As you work through the chapters in your Algebra 1 course, you will be encouraged to think and to make conjectures while you persevere through challenging problems and exercises. You will make errors - and that's okay! Learning and understanding occur when you make errors and push through mental roadblocks to comprehend and solve new and challenging problems.

Text: Algebra 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)
$\qquad$ Maintaining Mathematical Proficiency (page 163): Complete exercises \#1-10 all
$\qquad$ 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
$\qquad$ 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
$\qquad$ 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
$\qquad$ 4.4 Scatter Plots and Lines of Fit: Read the lesson and complete exercises \#3-7 all, 9, 10, 12, 25, 26, 27
$\qquad$ 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
$\qquad$ 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.

$\qquad$ Chapter Review (pages 208-210): Complete exercises \#1-29 all
$\qquad$ Complete the attached Project (No project $=$ No credit)

A teacher or tutor reviewed the Chapter Review and Project with the student.
Date: $\qquad$ Signature: $\qquad$

# Algebra 1 Project <br> 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: $(4,4),(8,5),(-4,2)$

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

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

