

# Story Problems with Linear Equations

SUBJECT	TEACHER	GRADE	DATE
Math		[00]	[Date]

## OVERVIEW

Create linear equation for story problems

PREREQUISITES	RESOURCES	NOTES
• Introduction to linear equations	• Whiteboard or Chalkboard	This can work to a segway to inequalities in a future lesson.

PHASES	TEACHER GUIDE	STUDENT GUIDE
OBJECTIVES	Learn the components of a linear equation	
OPENING	Students are divided into groups of sufficient size to facilitate one group situated around the room at a whiteboard or chalkboard	
STORY INVOLVING LINEAR EQUATION	Needing to estimate how many years until public transportation has been saturated with users	
ACTIVITY	Students research what is needed: Population estimates, population projections, # of transportation users, etc. User Saturation = (population increase * years + current population) * proportion of population who use transportation	Those at the board keep information written down. Then solve the equation. At the end of the hour students at the board have solved a story with information from the class
SUMMARY		Ability to apply story problems to linear equations