

# Algebra 1

## Quarter 2 Unit 2b: Solving Equations



"It's not that I'm so smart, it's just that I stay with problems longer." –Albert Einstein

### overview

In the previous unit, we learned to make proportions and ratios of two things. In this unit, we will continue to make connections through writing equations. We will begin to write, graph, and solve equations.

### guiding question 3: How can we use simple equations to solve real-life problems?

#### lessons

Monday 10/29 Tuesday 10/30	<p>Patterns, Equations, and Graphs</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• identify patterns.</li> <li>• create tables and graphs that match patterns</li> </ul> <p><b>Vocabulary:</b> Conjecture, linear equation</p> <p><b>Task:</b> Patterns Station</p>
Thursday 11/01 Friday 11/02	<p>Intro to Equations</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• Determine which values satisfy solutions.</li> </ul> <p><b>Vocabulary:</b> solution, inverse operations</p> <p><b>Practice Set:</b> IXL I.5: Does x satisfy the equation? IXL I.6: Which x satisfy an equation</p>
Monday 11/05 Tuesday 11/06	<p>Solving Equations</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• solve linear equations using addition and subtraction.</li> <li>• solve linear equations using multiplication and division.</li> </ul> <p><b>Practice Set:</b> IXL J.3: Solve one-step linear equations IXL J.4 Solve two-step equations Two-step equation maze</p>
Thursday 11/08 Friday 11/09	<p>Multi-Step Equations</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• solve multi-step linear equations using inverse operations.</li> </ul> <p><b>Practice Set:</b> IXL J.5: Solve advanced linear equations</p> <p>Literal Equations</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• solve linear equations that have variables on both sides.</li> </ul> <p><b>Vocabulary:</b> Literal Equation, formula</p> <p><b>Practice Set:</b> IXL I.8: Rearrange multi-variable equations</p>
Monday 11/12 Tuesday 11/13	<p>Word Problems</p> <p><b>Objectives:</b> Students will:</p> <ul style="list-style-type: none"> <li>• use linear equations to solve real-life examples</li> </ul> <p><b>Practice Set:</b> Word problems example worksheet.</p>
Thursday 11/15 Friday 11/16	<p>Vocab due today</p> <p><b>Assessment:</b> Magic of Mathematics</p>

Assignment Guidelines:***Individual Work***

**Vocabulary:** (Create a Graphic Organizer, Mind Map, or Flash Cards for the vocab words of each section.)

- Due on the day of the Assessment

**Practice Sets:** You will find the problems in the textbooks located in the classroom **OR** in the pdf form on Google Classroom. You must complete the whole set and include a a reflection for full credit.

- Due the class after it is assigned
- Note: Late assignments are subject to 25% penalty. Assignments older than two weeks will not be accepted.

**Warm Ups:** In class the first five minutes of class.

***Group***

**Tasks:** Due as set by deadline