

8th Grade - Unit 3: Math - Solving Equations

Content Area: **Mathematics**
Course(s): **Generic Course**
Time Period: **Generic Time Period**
Length: **#14 days**
Status: **Published**

Established Goals/Standards

Please choose the appropriate Goals/Standards from the Standards tab above.

MA.8.EE.C.7	Solve linear equations in one variable.
MA.8.EE.C.7a	Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form $x = a$, $a = a$, or $a = b$ results (where a and b are different numbers).
MA.8.EE.C.7b	Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.

Essential Questions

Please add your Essential Questions by clicking on the Lists tab above.

- How can the variable of an unknown variable be found?

Enduring Understanding

Please add your Enduring Understandings by clicking on the Lists tab above.

- Equations can be solved by following the properties of equality.

Content

Students will be able to:

- Solve multi-step equations with the variable on one side.
- Solve multi-step equations with variables on both sides.
- Simplify the terms of an equation prior to solving.
- Identify whether a linear equation has one solution, no solution, or infinite solutions.

Vocabulary:

- like terms
- term
- properties of equality

- equation
- expression
- coefficient
- constant
- variable

Assessment

Resources

- Savvas enVision textbook and online resources
- Teacher made flip-charts
- Web-based activities (IXL, Edpuzzle.com)
- Teacher made worksheets/assessments
- mad minutes
- NJCTL.org (PMI math)
- Pizzazz series of worksheets