

# Equation Crunch

## Strategies

Choice board

Rehearsal

Multiple intelligences

## Standard

Algebra—Represent and analyze mathematical situations and structures using algebraic symbols.

## Objective

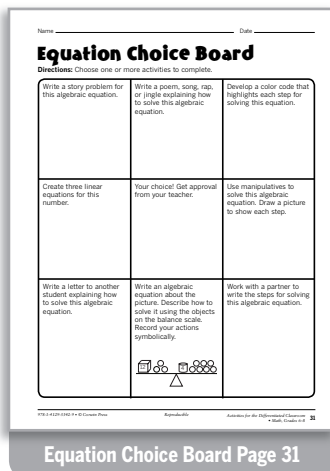
Students will solve linear equations.

## Materials

Equation Choice Board reproducible

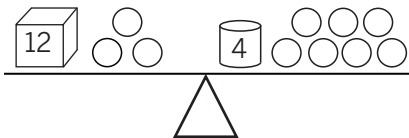
This lesson taps into students' multiple intelligences by providing the opportunity to perform a variety of activities. It also gives students plenty of practice in solving linear equations.

1. Determine if you want students to work individually, with partners, or in groups of three. If students are grouped, assign them based on their level of skill in solving equations.
2. Prior to the activity, write skill-level-appropriate linear equations and numbers on the **Equation Choice Board (page 31)**.
3. Review with the class how to solve equations. Write an equation on the board or chart paper, such as  $3x + 2 = 5x$ . Solve the equation using manipulatives such as algebra tiles.
4. Distribute the Equation Choice Board reproducible. Allow students to choose activities from the reproducible that they would like to complete. Based on students' abilities, you may want to set a specific number of activities to complete. Have students cross off the box for each completed activity.
5. When students have completed all of their chosen activities, collect their reproducibles and solution papers. These may be used for assessment.



# Equation Choice Board

**Directions:** Choose one or more activities to complete.

|   |   |  |
|---|---|--|
| <p>Write a story problem for this algebraic equation.</p>                                 | <p>Write a poem, song, rap, or jingle explaining how to solve this algebraic equation.</p>  | <p>Develop a color code that highlights each step for solving this equation.</p>             |
| <p>Create three linear equations for this number.</p>                                     | <p>Your choice! Get approval from your teacher.</p>   | <p>Use manipulatives to solve this algebraic equation. Draw a picture to show each step.</p> |
| <p>Write a letter to another student explaining how to solve this algebraic equation.</p> | <p>Write an algebraic equation about the picture. Describe how to solve it using the objects on the balance scale. Record your actions symbolically.</p>  | <p>Work with a partner to write the steps for solving this algebraic equation.</p>           |