

**Why Algebra Tiles?**

When you work with algebra tiles, you are using a visual model to represent algebraic expressions and equations. This helps you understand the relationship between numbers and variables, and how they can be combined to form a whole.

**Building Algebraic Expressions**

Algebra tiles can be used to build algebraic expressions. For example, you can use one large square tile to represent  $x^2$ , four smaller square tiles to represent  $4x$ , and four small square tiles to represent  $4$ . Together, they form a larger square representing  $(x+2)^2$ .

**Algebra Tile Key**

$\blacksquare = x^2$     $\blacksquare = x$     $\blacksquare = 1$

**Simplifying Expressions**

Algebra tiles can be used to simplify algebraic expressions. For example, you can use algebra tiles to represent the expression  $x^2 + 4x + 4$ . By rearranging the tiles, you can see that this expression is equivalent to  $(x+2)^2$ .

**Example:** Simplify  $x^2 + 4x + 4$

Step 1: Represent the expression using algebra tiles.

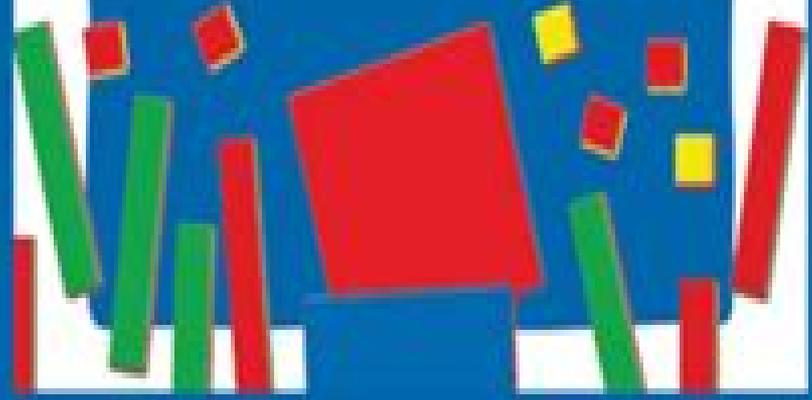
Step 2: Rearrange the tiles to form a perfect square.

Step 3: Write the simplified expression:  $(x+2)^2$

$x^2$	$4x$	$4$
$x^2 + 4x + 4$	$(x+2)^2$	

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# A Teacher's Guide to WORKING WITH ALGEBRA TILES



**Solving Linear Equations**

Algebra tiles can be used to solve linear equations. For example, you can use algebra tiles to represent the equation  $2x + 3 = 7$ . By rearranging the tiles, you can see that  $x = 2$ .

**Factoring Polynomials**

Algebra tiles can be used to factor polynomials. For example, you can use algebra tiles to represent the polynomial  $x^2 + 5x + 6$ . By rearranging the tiles, you can see that this polynomial factors into  $(x+2)(x+3)$ .

**Answer Key**

**Example 1:** Solve  $2x + 3 = 7$

Step 1: Represent the equation using algebra tiles.

Step 2: Subtract 3 from both sides.

Step 3: Divide both sides by 2.

Step 4: Write the solution:  $x = 2$

**Example 2:** Factor  $x^2 + 5x + 6$

Step 1: Represent the polynomial using algebra tiles.

Step 2: Rearrange the tiles to form a rectangle.

Step 3: Write the factored form:  $(x+2)(x+3)$

# Discovering Algebra Teachers Guide

**Scott C. Dulebohn**



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web mendelian genetics monohybrid punnett squares google classroom in mussels brown coloring b is dominant and blue coloring b is recessive a homozygous brown mussel crosses with a blue mussel what percentage of offspring are expected to be blue choose 1 answer 100 a 100 0 b 0 75 c 75 25 d 25 50 e 50 stuck

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web choose 1 answer choose 1 answer choice a mosaicism a mosaicism choice b codominance b codominance choice c incomplete dominance c incomplete dominance choice d complete dominance d complete dominance use a hint loading