GETTING STARTED WITH TACTILE ALGEBRA TILES

Through Students’ Eyes
Presenters

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Learning Objectives

• The participants will learn the basics of using Tactile Algebra Tiles to represent numbers and variables.
• The participants will learn how to implement adding, and subtracting integers.
• The participants will learn how to simplify algebraic expression.
• The participants will learn how to solve linear equations.
WHAT IS TACTILE ALGEBRA TILES
And why it is useful to the student?
Concepts

• Students with low vision tend to rely on their memory skills (Withagen et al., 2013).

• Most recommended way of teaching to students with low vision is through concrete manipulatives (Withagen et al., 2013).

• Students with low vision explore objects one at a time. Spatial and directional concepts are more challenging (Hatwell, 2003).

• 10 out of 12 students were as successful as their peers when provided with appropriate curricular and increase in the participation (Rule et al., 2011).
Why are Algebra Tiles useful?

• Math concepts presented in an accessible format.
• Give concrete form to abstract ideas
• When teachers uses manipulatives during instructions, the sighted peers benefit from it as well (Rule et al., 2011).
  • Provides a universal way
• Helps build the spatial understanding of mathematics.
• Increases self-esteem
UNBOXING TACTILE ALGEBRA TILES
What comes in the box?

- Small lime & red square titles – 32 pieces
- Violet & red rectangle titles – 12 pieces
- Large blue & red square titles – 6 pieces
- Board – 2 pieces
- Black separation bars – 2 pieces
Algebra Tile Demonstration
INTEGERS
Working with Integers

• Model adding integers
• Model subtracting integers
SIMPLIFYING ALGEBRA
Working with Algebraic Expressions

- Model simplifying algebraic expression
- Model Distributive Property
- Model Factorizing Algebraic Expressions
SOLVING LINEAR EQUATIONS
Working with Linear Equations

• Model one-step equation
• Model two-step equations
REAL LIFE WORD PROBLEM
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