

Spotlight On: Fostering Curiosity

This year, your student's teacher is working to foster curiosity by encouraging students to think about mathematics and the world in new ways. The explorations that result from students' questions promote higher-order thinking through analyzing, evaluating, and creating new ideas.

The Big Picture

Growing From

Linear relationships;
Interpreting graphs

Working On

Graphing linear relationships;
Solving equations with algebra tiles;
Association in a scatter plot

Growing To

Multiple representations;
Solving equations algebraically;
Trend lines on a scatter plot

Need Help?

Methods & Meanings boxes are included in the Mathematician's Notebook as reference.

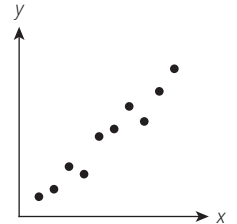
- 3.1.3: Describing Trends in Scatter Plots
- 3.2.1: Describing Patterns in Scatter Plots
- 3.2.3: Tile Moves
- 3.2.4: Using an Equation Mat
- 3.3.3: Discrete and Continuous Graphs
- 3.3.5: Independent and Dependent Variables

Current Topics

This chapter continues students' work with data and linear relationships. In addition, students begin working with algebra tiles to solve multi-step equations, before solving equations algebraically in Chapter 4. Students will continue to develop their skills in representing linear relationships as graphs, tables, equations, and written descriptions.

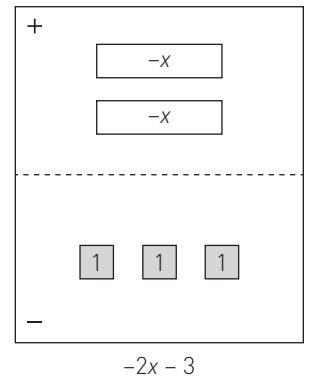
Trend Lines (Section 3.1)

In this section, students interpret scatter plots, like the one shown. In particular, they look for associations (linear and nonlinear, positive and negative), identify outliers, identify clusters, and determine the strength of associations. Students use trend lines on linear associations to make predictions about real-world contexts.



Solving Equations with Algebra Tiles (Section 3.2)

In this section, students revisit algebra tiles, which they worked with in *Inspiring Connections Course 1* and *Course 2*. Students use algebra tiles on an Expression Mat to rewrite expressions and on an Equation Mat to solve multi-step equations. As the course progresses, students use their understanding of algebra tiles to solve multi-step equations without visual aids.



Graphing Linear Equations (Section 3.3)

Students will investigate visual representations of linear patterns and write descriptive and algebraic rules. They also graph linear relationships from tables and practice graphing coordinates with negative values and decimals.

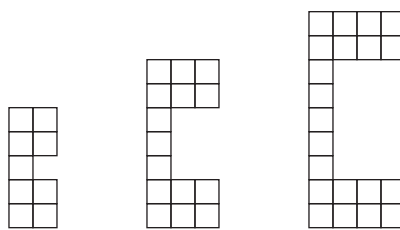


FIGURE 1

FIGURE 2

FIGURE 3

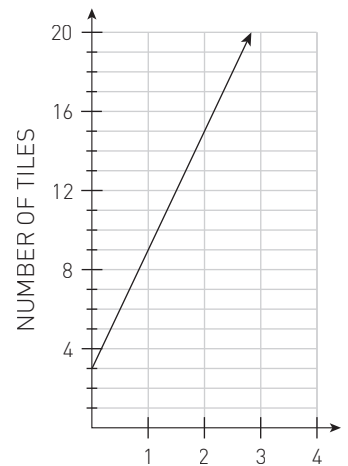


FIGURE NUMBER

Try This at Home!

With your student, look through news articles to locate a scatter plot. Work together to interpret the graph by asking your student to describe the association and what it means in the context of the graph.

