

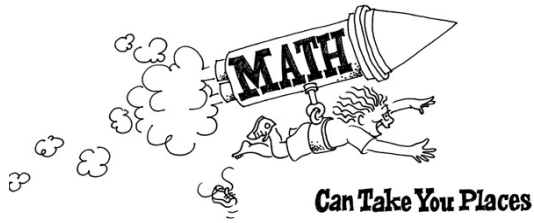
Thinking Algebraically

Algebra Autobiography

What do you remember about learning algebra? Write a mini-autobiography describing your experiences; afterward, record similarities and differences between individual accounts.

Reflecting on your experiences learning algebra, how do your experiences compare or how do you think they will compare to your students' instructional experiences in algebra?

Adapted from Arlene Hambrick, Ph.D., National-Louis University, Chicago, IL, 2005 NCSM Conference, Anaheim, CA.



Thinking Algebraically

Video Reflection



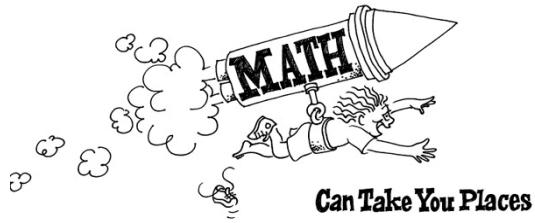
How does my current instruction encourage students to think algebraically about patterns?



How does my current instruction encourage students to think algebraically about numbers?



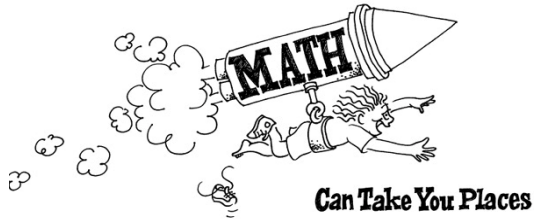
How does my current instruction encourage students to think algebraically about writing and solving equations with unknowns?



Thinking Algebraically

Planning a Lesson

Working with your group, brainstorm a lesson plan focusing on algebraic thinking. Center the lesson on a school-related event. For example, student lunches in the cafeteria cost \$1.30, juice is \$0.50 extra. The data could be organized in a table to show the pattern or give students partial data in the table and have them derive the missing data.



Thinking Algebraically

Working at Home

Create a list of tips and activities that students can do at home to help build algebraic thinking skills.

