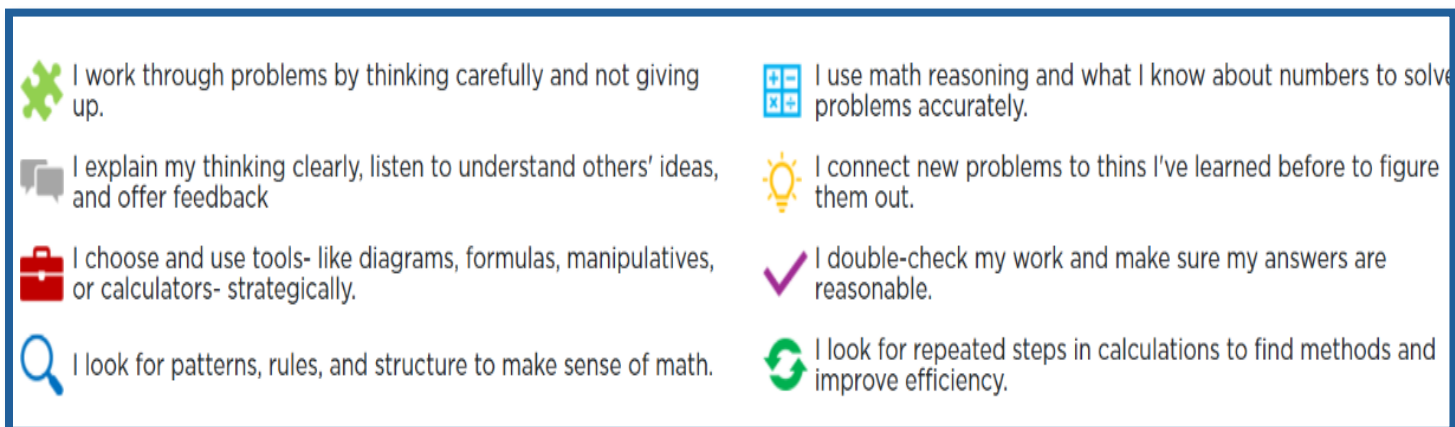


Family Resources for Math 8 Unit 3: Linear Equations and Linear Inequalities

Habits of Mind and The Standards for Mathematical Practice

Habits of mind refer to the ways students think and behave when they are faced with a problem.

In mathematics, middle school students are always learning about and using these mathematics habits of mind:



These habits are known as the **Standards for Mathematical Practice**, and they describe the key skills and behaviors that help students become strong mathematical thinkers.

These practices are especially important in middle school because students are moving from basic skills to more complex and abstract ideas. When teachers consistently support these practices, students become more confident and independent learners. They begin to see themselves as capable problem solvers who can make sense of new and challenging situations. Students begin to understand that struggle is a normal part of learning and that effort leads to growth. Over time, this approach builds not only stronger math skills, but also critical thinking and communication skills that are valuable in all areas of life.

Focusing on habits of mind and the Standards for Mathematical Practice helps create a classroom where thinking is valued, mistakes are part of learning, and every student has the opportunity to grow.



For additional information and resources to support at home, please visit the [Office of Mathematics website](#).

Big Ideas in Unit 3

Within this unit, students will learn these big ideas:

- Equivalent Equations
- Linear Equations in One Variable
- Linear Inequalities in One Variable

For more details about this unit, see [Unit 3 Family Resources Part 1](#) and [Unit 3 Family Resources Part 2](#).

Note: Print and digital resources for Math 8 Unit 3 are from Illustrative Mathematics Grade 8 Unit 4 and Illustrative Mathematics Algebra 1 Unit 4 in alignment with revised Maryland Math standards.

Lesson Specific Resources

Use the links below to learn about the learning from each lesson.

Lesson Link
8.4.1 Writing Equivalent Equations
8.4.2 Keeping the Equations Balanced
8.4.3 Balanced Moves
8.4.4 More Balanced Moves
8.4.5 Solving Any Linear Equation
8.4.6 Strategic Solving
8.4.7 All, Some, or No Solutions
8.4.8 How Many Solutions?
A1.4.1 Representing Situations with Inequalities
A1.4.2 Solutions to Inequalities in One Variable
A1.4.3 Writing and Solving Inequalities in One Variable