

Family Resources for Math 8 Unit 4: Linear Systems

The Power of a Growth Mindset in Learning

A student's success is shaped not only by what they learn, but also by how they think about learning. A **growth mindset** is the belief that abilities can develop through effort, practice, and persistence. Students with this mindset view challenges as opportunities to grow, see mistakes as learning opportunities, and understand that improvement comes with time and effort.

When students believe their abilities are fixed, they may avoid challenges or become discouraged when learning is difficult. In contrast, a growth mindset encourages the belief:

“I may not understand this yet, but I can learn it.”



Students with a Growth Mindset...

A Lasting Foundation for Success

A growth mindset is more than a classroom idea—it is a life skill. When students believe they can grow and improve, they become more confident, independent, and willing to take on new challenges. This mindset supports not only academic success, but also perseverance and adaptability in all areas of life. By reinforcing these ideas at home and in school, we help students build a strong foundation: one where learning is seen as an ongoing journey, and every challenge is an opportunity to grow.



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

Big Ideas in Unit 4

Within this unit, students will learn these big ideas:

- Linear Equations in One Variable
- Systems of Linear Equations

For more details about this unit, see [Unit 4 Family Resources](#).

Lesson Specific Resources

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

Lesson Link
4.9 When Are They the Same?
4.10 On or Off the Line?
4.11 On Both of the Lines
4.12 Systems of Equations
4.13 Solving Systems of Equations
4.14 Solving More Systems
4.15 Writing Systems of Equations
4.16 Solving Problems with Systems of Equations