

## Modeling Constraints with Equations

### Today's Standard

HSA.CED.A3 - Represent constraints by equations or inequalities, and by systems of equations and/or inequalities, and interpret solutions as viable or nonviable options in a modeling context. For example, represent inequalities describing nutritional and cost constraints on combinations of different foods.

### Real-World Applications for this Standard

Budgeting for a school event; Planning a balanced diet; Optimizing resource allocation in a business; Determining the best mix of investments; Designing a schedule with time constraints

### Today I Learned

Today I learned how to use math to solve real-world problems by creating equations and inequalities. This helps us figure out what solutions make sense in different situations.

### Common Stumbling Blocks

Sometimes, kids might think all math solutions work in real life, but that's not always true. They also might mix up equations and inequalities, which are different kinds of math problems.

### Quiz Me

- What is an equation?
- What is an inequality?
- Why do we use equations and inequalities?
- Can all math solutions work in real life?
- How can we check if a solution makes sense?

### Help Me

Equations and inequalities help us solve problems we see every day, like planning a budget or making a schedule. By using these math tools, we can make sure our solutions make sense in real life.