

Parent Guide to the

# Laws of Sines and Cosines

# Today's Standard

HSG.SRT.D10 - (+) Prove the Laws of Sines and Cosines and use them to solve problems.

# Real-World Applications for this Standard

Determining distances in navigation and surveying; Solving problems in physics related to forces and motion; Engineering applications in designing structures; Astronomy for calculating distances between celestial bodies

## Today I Learned

Today, we learned about the Laws of Sines and Cosines. These are special math rules that help us solve triangles, which are shapes with three sides.

# **Common Stumbling Blocks**

Sometimes, kids think these rules only work for right triangles, but they work for all triangles. Also, kids might mix up the two rules because they sound similar.

### Quiz Me

- What shape has three sides?
- What do the Laws of Sines and Cosines help us solve?
- Do these laws only work for right triangles?
- Can you name one real-world use of these laws?
- What is one thing kids often mix up about these laws?

### Help Me

The Laws of Sines and Cosines help us solve problems in the real world, like finding distances or designing buildings. They are very useful in many jobs and everyday situations.