



### Geometric Constructions

#### Today's Standard

HSG.CO.D12 - Make formal geometric constructions with a variety of tools and methods (compass and straightedge, string, reflective devices, paper folding, dynamic geometric software, etc.). Copying a segment; copying an angle; bisecting a segment; bisecting an angle; constructing perpendicular lines, including the perpendicular bisector of a line segment; and constructing a line parallel to a given line through a point not on the line.

#### Real-World Applications for this Standard

Designing architectural blueprints; Creating technical drawings in engineering; Artistic endeavors like perspective drawing; Navigating and mapping in geography; Robotics and mechanical designs

#### Today I Learned

Today, we learned about how to make shapes and lines using different tools like a compass and ruler. This helps us understand more about math and how it works in real life.

#### Common Stumbling Blocks

Sometimes, kids think they can only use a compass and ruler to make shapes, but there are other tools too. They also might not know that making shapes is useful in jobs like building houses or designing things.

#### Quiz Me

- What tools can we use to make shapes?
- Can we use a piece of string to make a shape?
- Why is it important to learn how to make shapes?
- Can making shapes help in building things?
- Is using a computer a way to make shapes?

#### Help Me

Making shapes and lines helps us do things like build houses and design cool stuff. It's not just for math class; it's useful in many jobs!

