



Inscribed Regular Polygons

Today's Standard

HSG.CO.D13 - Construct an equilateral triangle, a square, and a regular hexagon inscribed in a circle.

Real-World Applications for this Standard

Designing geometric patterns in art and architecture; Creating tiling patterns for floors and walls; Understanding molecular structures in chemistry; Designing gears and other mechanical components; Planning layouts for circular gardens or parks

Today I Learned

Today, we learned how to draw shapes like triangles, squares, and hexagons inside a circle. These shapes are special because all their sides are the same length, and they touch the circle perfectly.

Common Stumbling Blocks

Sometimes, kids think the sides of these shapes can be different lengths, but they can't. Also, some kids think the shapes don't need to touch the circle all the way, but they do.

Quiz Me

- What shape has three equal sides?
- What shape has four equal sides?
- How many sides does a hexagon have?
- Where do the corners of the shapes touch?
- What tool do we use to draw circles?

Help Me

We use these shapes in many places, like in art and buildings. Knowing how to draw them helps us make beautiful and useful designs.