Inscribed and Circumscribed Circles in Geometry

Today's Standard

HSG.C.A3 - Construct the inscribed and circumscribed circles of a triangle, and prove properties of angles for a quadrilateral inscribed in a circle.

Real-World Applications for this Standard

Designing roundabouts and circular parks; Engineering wheel and axle systems; Creating circular artwork and patterns; Analyzing planetary orbits; Architectural design of circular buildings

Today I Learned

Today, we learned about circles in geometry. We made circles inside and around triangles and learned about the angles in shapes that can fit inside a circle.

Common Stumbling Blocks

Sometimes, students mix up circles inside and outside triangles. They also think any four-sided shape can fit inside a circle, but only special ones can.

Quiz Me

- What is an inscribed circle?

- What is a circumscribed circle?

- Can all quadrilaterals fit inside a circle?

- What tools do we use to draw these circles?

- Why is understanding angles important?

Help Me

We use circles in many ways, like in designing parks or buildings. Knowing how to draw and understand these circles helps us make better designs and solve problems.