3D Figures and Surface Area

Today's Standard

6.G.A4 - Represent three-dimensional figures using nets made up of rectangles and triangles, and use the nets to find the surface area of these figures. Apply these techniques in the context of solving real-world and mathematical problems.

Real-World Applications for this Standard

Designing packaging for products; Creating architectural models; Building and understanding geometric shapes in engineering; Art projects involving geometric shapes; Calculating paint needed for surfaces

Today I Learned

Today, we learned how to make 3D shapes using flat shapes called nets. We used rectangles and triangles to create these shapes and found out how much space the outside of the shape takes up.

Common Stumbling Blocks

Sometimes, kids think that surface area and volume are the same, but they are not. Surface area is the outside part, and volume is the inside space. Also, kids might forget to count all the sides when finding the surface area.

Quiz Me

- What shapes do we use to make nets?
- What is surface area?
- Is surface area the same as volume?
- Why do we need to count all the sides of a net?
- Can you name a real-world example where we use nets?

Help Me

Surface area helps us know how much space the outside of a shape takes up. We use this in real life to do things like designing packages or building things. For example, if we want to wrap a gift, we need to know the surface area to use the right amount of wrapping paper.