Linear vs. Exponential Models

Today's Standard

HSF.LE.A1 - Distinguish between situations that can be modeled with linear functions and with exponential functions.

Real-World Applications for this Standard

Population growth; Interest calculations; Depreciation of assets; Temperature changes; Bacterial growth

Today I Learned

Today, we learned about two types of math models: linear and exponential. Linear models change at a constant rate, like a straight line. Exponential models change faster and faster, like a curve.

Common Stumbling Blocks

Sometimes, kids think all growing patterns are straight lines, but some grow much faster, like curves. Also, they might mix up fast-dropping curves with straight lines going down.

Quiz Me

- What is a straight line model called?
- What type of model grows faster and faster?
- Can you name something that grows like a curve?
- What happens to a straight line model over time?
- How does a curve model change over time?

Help Me

Linear models are like when you save the same amount of money every week. Exponential models are like when you earn more money every week because of interest. Understanding these helps us see different patterns in the world.