

Exponential Functions and Growth: Explore and Explain



Name: _____ Date: _____

Explore the material. Talk through your reasoning with suitable support.

Invented growth model

Invented practice data or scenario; not a report of a real study.
An illustrative model starts at 3 units and doubles each step: $y = 3 \times 2^x$. This is a mathematical practice model, not a real population prediction.

Step x	Units y
0	3
1	6
2	12
3	24

1. Find y at x = 4.

2. What factor multiplies y at each step?
