GGG Investigation 4 iXL

Download the iXL app from the app store.

Open the app and click **Sign in**.

>   Your username is: first initial last name 476 (no spaces)
>   Your password is: math

Once logged in, change the grade in the upper-right hand corner to **ALGEBRA 1.**

Scroll down to the standard **X. Exponential Functions**.
It is in the left-hand column and has lime green heading.

Select **X.3 Exponential Growth and Decay: Word Problems**

Click **Practice Now**

This assignment is a FORMATIVE ASSESSMENT.
Your goal is to earn a Smart Score of 85 or better.

Exponential Growth: $y = $ (y-intercept) $\cdot$ (growth factor)^x

$y = $ (starting value) $\cdot$ (1 + % of increase as a decimal)^x

$y = $ (starting value) $\cdot$ (1 + % of growth)^x

Exponential Decay: $y = $ (y-intercept) $\cdot$ (decay factor)^x

$y = $ (starting value) $\cdot$ (% remaining as a decimal)^x

$y = $ (starting value) $\cdot$ (1 - % of decay)^x

Half-Life Problems: $y = $ (y-intercept) $\cdot$ (1/2)$^{\text{the \# of half-lives}}$

$y = $ (starting value) $\cdot$ (0.5)$^{\text{the \# of half-lives}}$

Amount of Interest: $y = $ (starting value) $\cdot$ (1 + % of growth)^x - (starting value)