

16.5 The First-Order Integrated Rate Law Equation (Video)

This project was preformed to supply **Libretext authors** with videos on General Chemistry topics which can be used to enhance their projects. Also, these videos are meant to act as a learning resource for **all General Chemistry students**.

Video Topics

First-order integrated rate law equation: $\ln[A](t) = -kt + \ln[A](0)$

Has line form $y = mx + b$

Where slope = $-k$

Typically we use a variation of the first-order integrated rate law equation for calculations.

$\ln \{[A]_t/[A]_0\} = -kt$

Allows us to find k in lab

Link to Video

The First-Order Integrated Rate Law Equation: https://youtu.be/_JskhfxBAMI



Attribution

- Prof. Steven Farmer ([Sonoma State University](#))

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