16.7 Rate of Radioactive Decay (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

For radioactive decay the rate constant k is called the decay constant. All living things are in equilibrium with ^{14}C in the atmosphere. When something dies it stops absorbing ^{14}C and the present ^{14}C starts to undergo beta decay. The half-life ^{14}C decay is 5.73 x 10^3 years. Rate of radioactive decay is measured in disintegrations per minute per gram (d/min•g). In living things ^{14}C activity is measured to be 14 (d/min•g). This video contains an example problem where carbon dating is used to predict the age of an item.

Link to Video

Rate of Radioactive Decay: https://youtu.be/YSKtRMQN5qg

Attribution

- Prof. Steven Farmer (Sonoma State University)