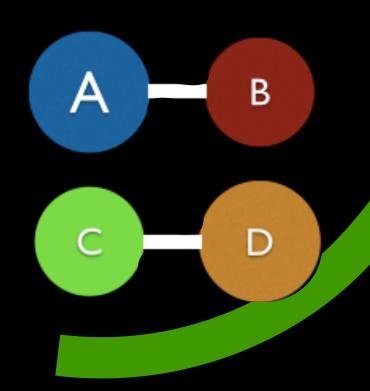
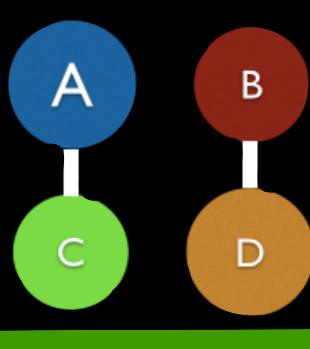
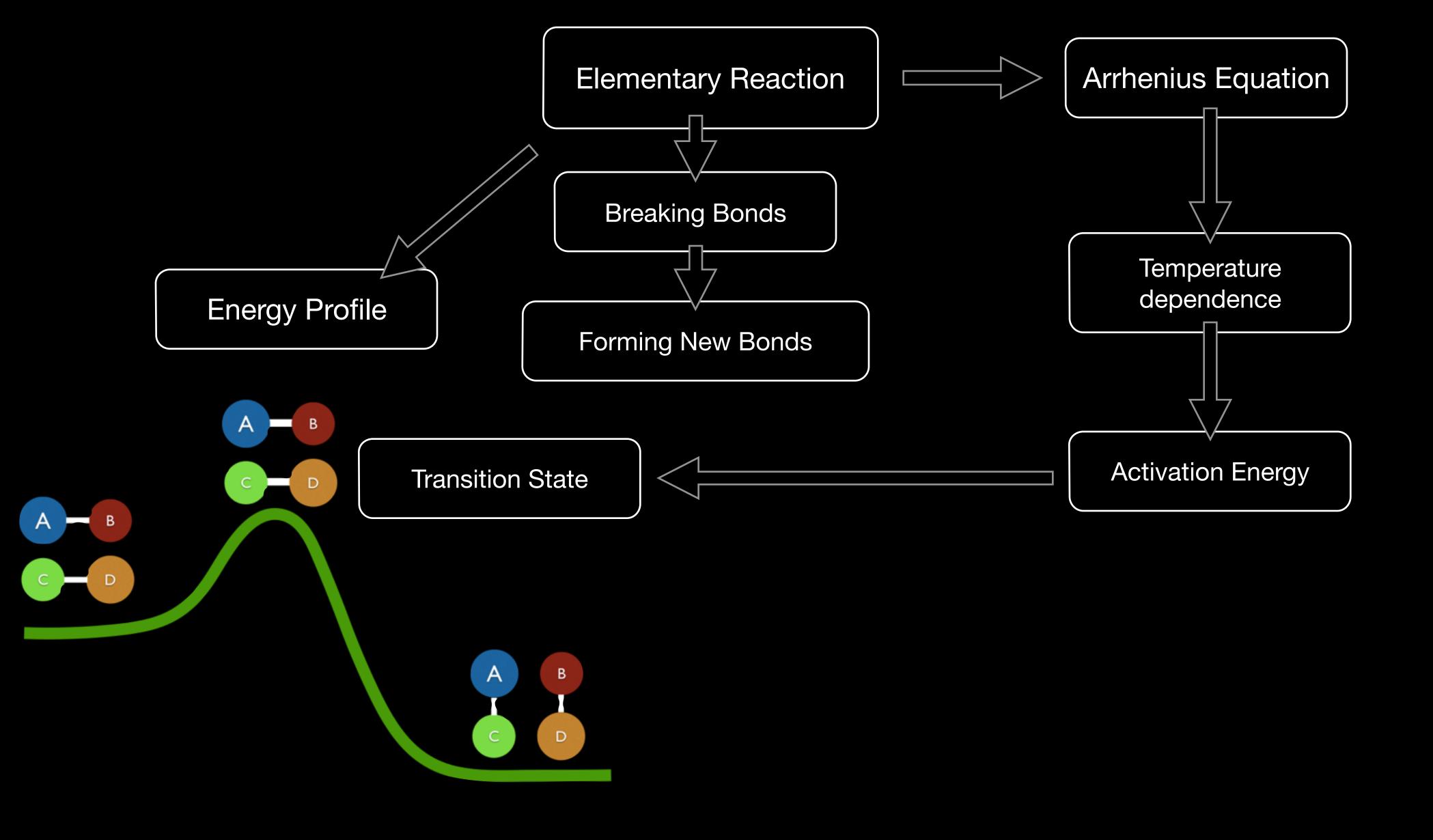
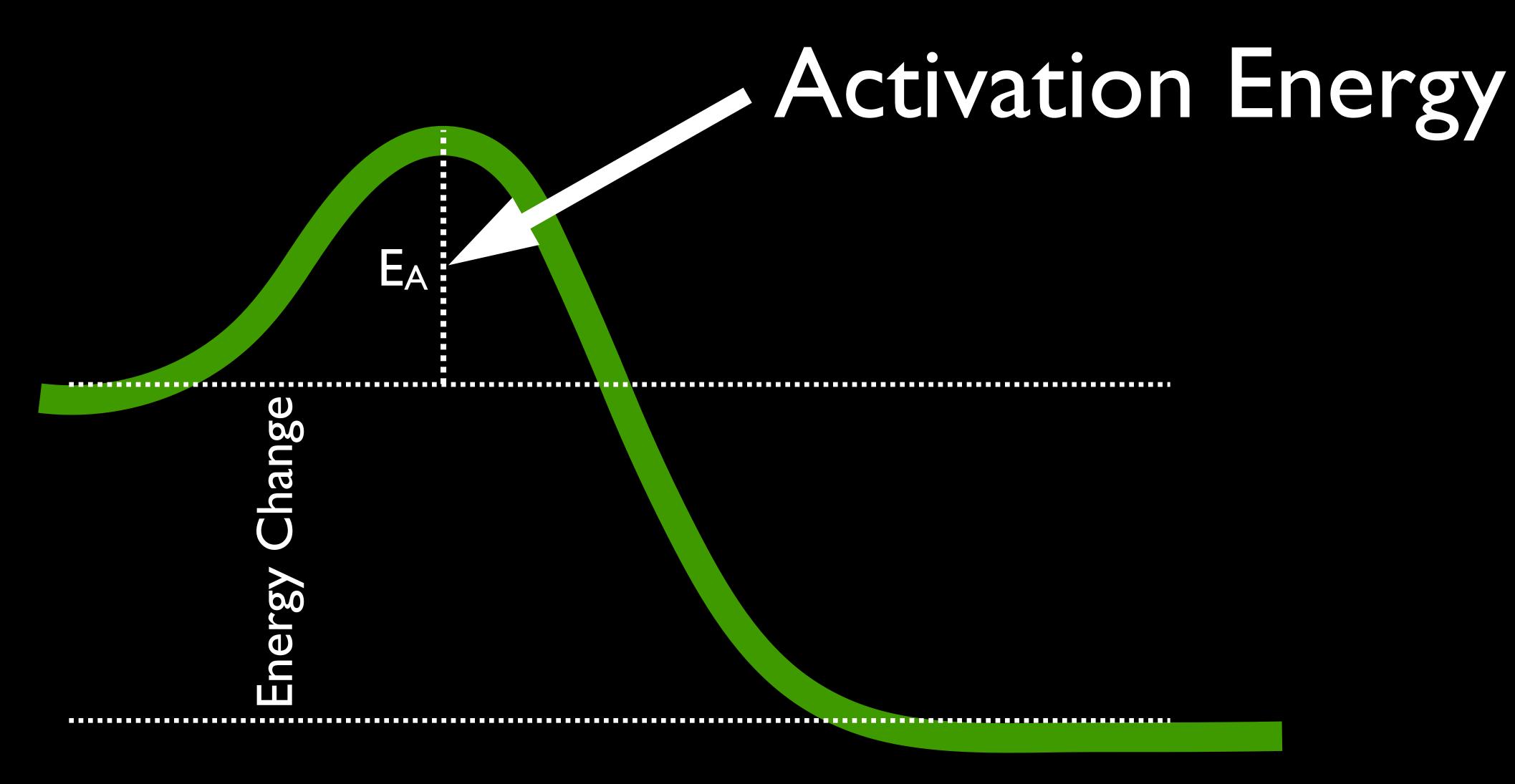
Reactants

Products



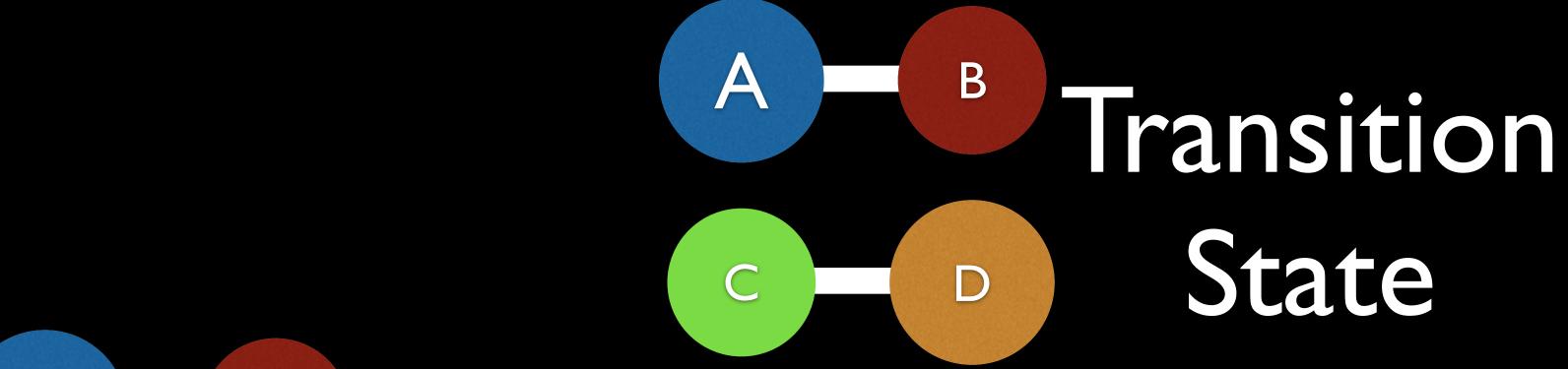


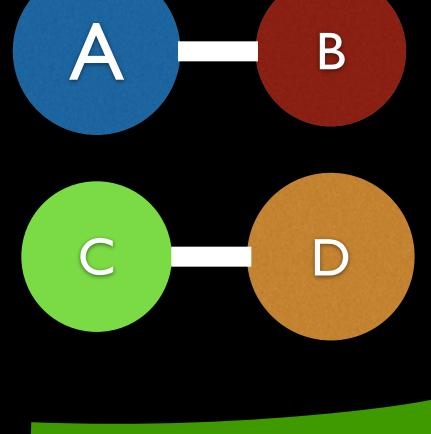


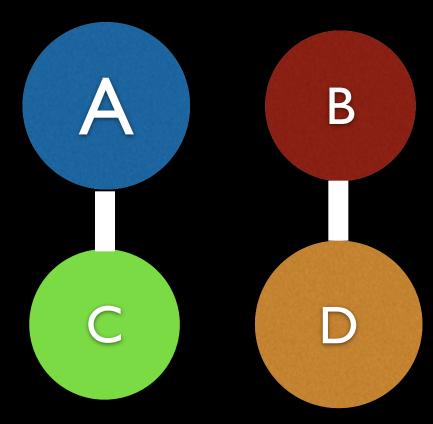


Reactants

Products





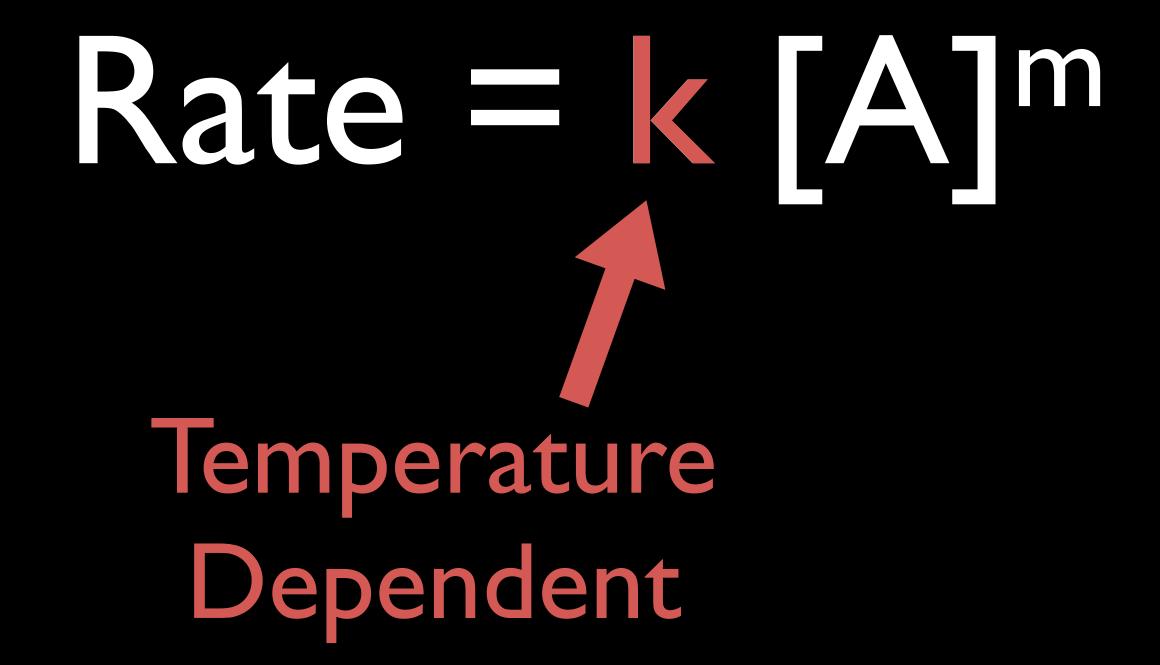


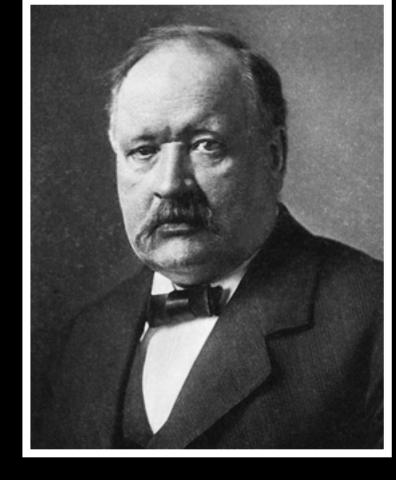
Arrhenius

A Products



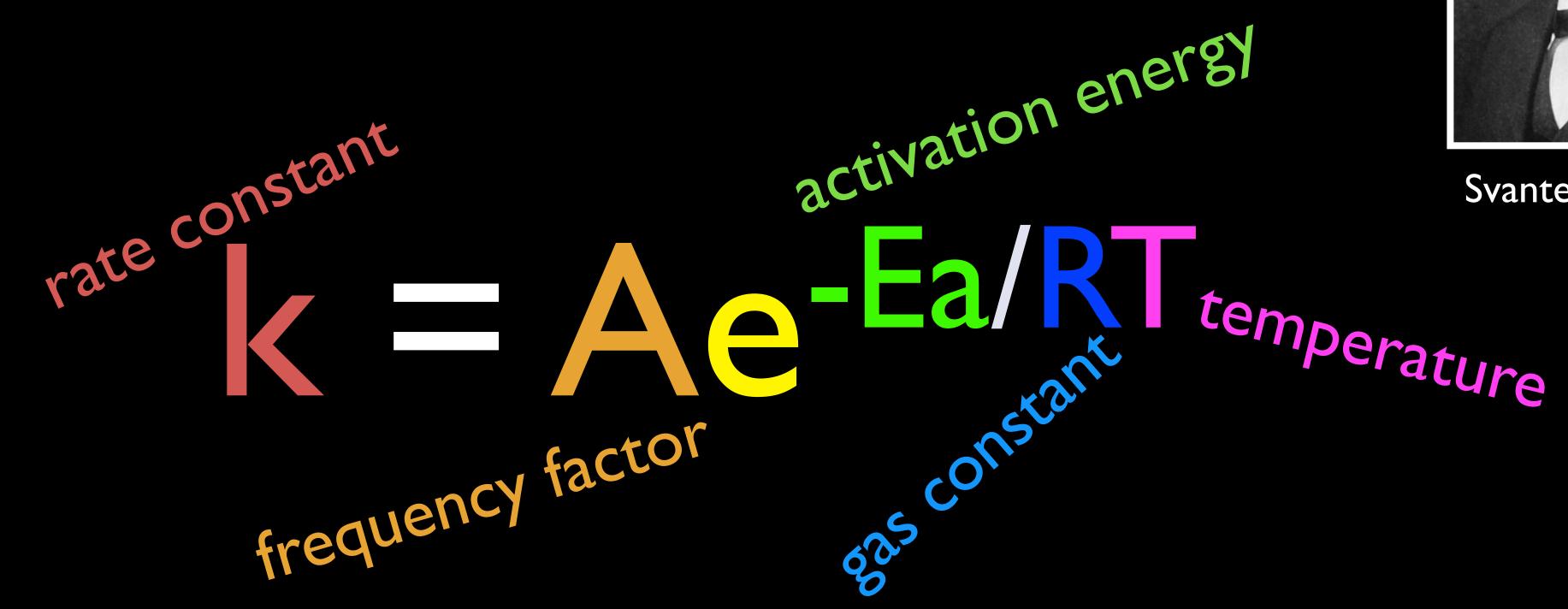
Svante Arrhenius





Svante Arrhenius





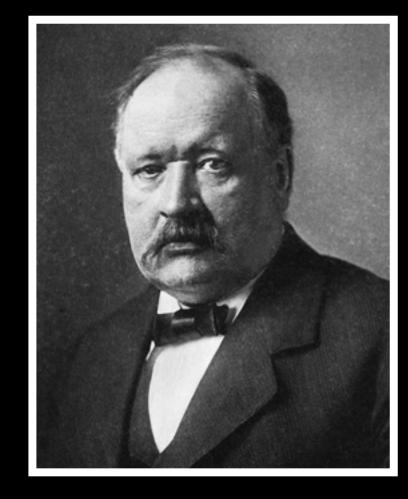


Svante Arrhenius





Svante Arrhenius

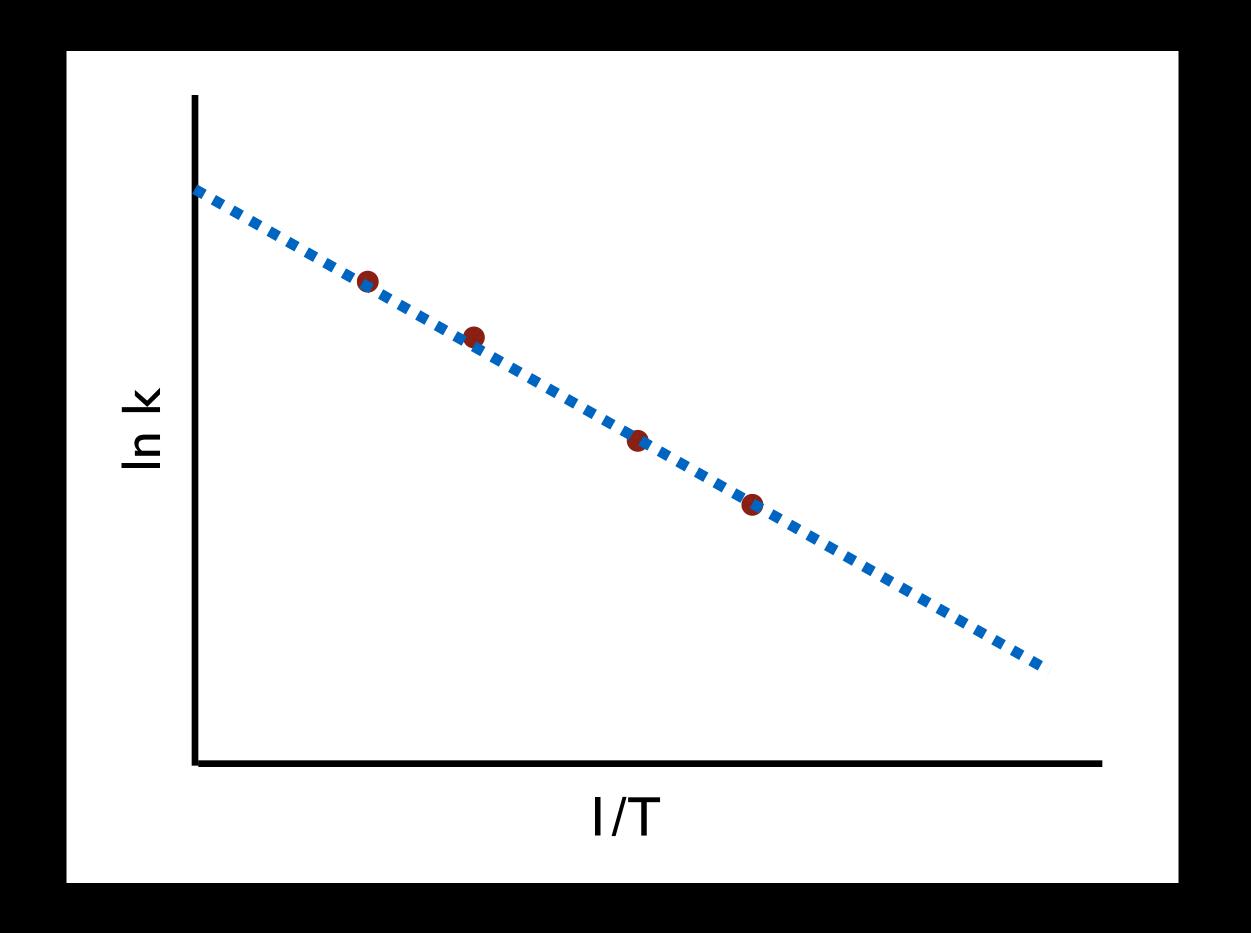


Svante Arrhenius

$$k = Ae^{-Ea/RT}$$

$$ln k = -\frac{Ea}{RT} + ln A$$

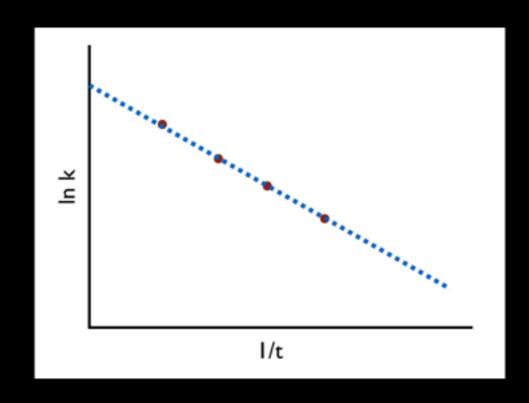
$\ln k = -\frac{Ea}{RT} + \ln A$



Temp (K)	k (s ⁻¹)
460	2.51 x 10 ⁻⁵
482	5.51xd0-5
5106 - 506	6.13 x 10-4
519	3.19 x 10 ⁻³

Did you learn?

$$\ln k = -\frac{Ea}{RT} + \ln A$$



slope =
$$-\frac{Ea}{R}$$

To explain the difference between successful and unsuccessful reactions in terms of energy and orientation.

oozemanscience.com

Acknowledgements "File: Arrhenius 2.jpg," October 26, 2013. http://en.wikipedia.org/wiki/File: Arrhenius 2.jpg.



www.bozemanscience.com