

# FLINN

# Determining a Rate Law

# A "Sulfur Clock" Reaction

#### Introduction

The rate of a chemical reaction may depend on the concentration of one or name reactions, or it may be independent of the concentration of a given reaction. Boundy how the rate depends on reaction concentrations is expressed in an excustion called the rate law. How can the rate law for a reaction be determined?

# Concepts

Klimantica.

\* Right Law

Order of reaction.

Consent attent

# Background

For a general reaction of the form

 $A + B \rightarrow C$ 

Eleganoviima 2

the rate lies can be written as

Ray - MAMBE

Elephintion 2

where it is the rate constant, [A] and [B] are the real or concentrations of the resonants, and it and exact exponents that define how the rate depends on the individual reactant concentrations. The values of it and excess be determined by experiment—they cannot be determined simply by looking at the balanced chemical equation. The rate constant for a reaction discension contempts on the reaction discension, but it does depend on temperature. The experience a reaction at the previous contempts to a referred to a contempt of reaction on the experiment at and we are also referred to a contempt of reaction on the experiment of a reaction of reaction on the previous example, the reaction is said to be other or in A and sub-rate in B. In general, it and so will be positive whole numbers—typical values of it and so are or 0, 1 and 2.

Rate laws for different reactions take on different forms. The following reactions and their experimentally determined rate laws denominate that the order of reaction cannot be predicted using the coefficients in the balance; therefold executions.

Chemical Equation	Rute Lucy
$NO_{g}(g) + CO(g) \rightarrow NO(g) + CO_{g}(g)$	Resr - ANOP
$2NO(g) + O_j(g) \rightarrow 2NO_j(g)$	Rate - a[NOP[O <sub>3</sub> ]
$2N_{\rho}O_{\rho}(g) \rightarrow 4NO_{\rho}(g) + O_{\rho}(g)$	$Rate = R[N_iO_i]$

The reaction order for each reactant in the rate law determines how the rate changes as the concentration of that reactant changes. If a reactant has an order of zero, the reactant does not appear in the rate law, and the rate is independent of its concentration. Increasing or decreasing the concentration of a zero-order reactant does not affect the rate of the reaction.

When a reaction is first order in a reactars, the reactars appears in the rate law with an exponent of 1—the rate is directly proportional to the testitant concentration. If the concentration of a first-order reactars is doubled, the rate will also double. For a reaction that is second order in a reactars, the reactars concentration appears in the rate law with an exponent of 2. If the concentration of a second-order reactars, is doubled, the rate of the reaction will increase by a factor of four.

The general procedure in this activity may be used to determine the rate law for a reaction. First, the concentration of one reaction is held constant while the concentration of a sector; reaction is variet, and the reaction since is measured. Then, the first reaction's concentration is variet; while the sector's concentration is held constant, and again the reaction time is measured. The average rate for each reaction is calculated by taking the inverse of the reaction time. The data are then and york to determine the reaction order for each reaction and the rate law.

Consider the reaction between nitric mode and progen gas.

Prigram Visite A

Eleganic Nicke, 46

The data in Table 1 were obtained by performing the reaction five times and verying the concentrations of the rescuarts as indicated. In each case, the reaction time was measured, then inverted to find the average tate.

Table 1.

Trial	1801	10,1	Reaction Time (sec)	Average Rate (sec ')
1	0.020	0.010	35.7	0.028
2	0.020	0,020	17.5	0.057
3	0.020	0.090	8.8	0.11
4.	0.040	0.020	404	0.23
5	0.000	0.020	71.4	6.014

# **Reaction Rate Lab Sulfur Clock Answers**

**Roger Frost** 

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