Rate ()

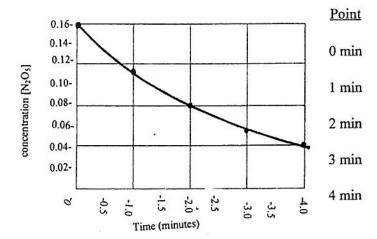
Kinetics

. Kinetics: Study of the or speed at which chemical reactions to	ike place.
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Rate =

*** Is the rate constant throughout the course of a rxn?

Time (min)	0	1	2	3	4
[N ₂ O ₅]	0.160	0.113	0.080	0.056	0.040



- 3. Calculate the rate? TWO WAYS....
 - a. AVERAGE RATE: Rate over a range of time.

Rateave =

b. <u>INSTANTANEOUS RATE</u>: Rate for a specific instant in time, Most common, what we are usually referring to...

Rateins. = slope () of the tangent line at a particular moment. see data table above.

4. Notice that the rate ______ as the rxn proceeds. WHY?

5. COLLISION THEORY:

- Collisions cause rxns and