

Continuous Monitoring of rates

Pre-lesson assignment- textbook page 277-281

Define the following key terms

- Continuous monitoring
- Colorimeter
- Half life

Make notes on the continuous monitoring of rates

Use the following questions as guidance

1. Briefly explain how a colorimeter can be used to monitor rate of reaction.
 - a. Briefly outline the procedure
 - b. Explain the use of a calibration curve
2. Give the shape of a first and zero order in a sketch graph.
 - a. Explain what each line tells us about the rate change during the reaction.
 - b. Explain how rate constant k can be determined from each.
3. Explain what is meant by half-life.
 - a. Explain how you could deduce whether a reaction was first or second order by examining the half-lives.
 - b. Explain how the rate constant can be calculated from half life.