CHE 134 Group Redesign Form

Group Member Names:

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Lab Section: 73

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* Which experiment will your group redesign?

experiment # 2: kinetic studyfor a bleaching reaction

* Will your redesign focus on improving the accuracy, precision or both?

both accuracy and precision

* Which result will be improved?

the determination of reaction order (m and n) and the rate constant (k) by capturing faster kinetic changes and reducing timing inconsistencies.

* Briefly explain how the proposed improvements will be achieved.

we will shorten the time intervals for absorbance measurements from 60/120 seconds to 30 seconds in both runs. this will increase data resolution and capture more subtle changes in (mg+) during the rapid phase of the reaction. additionally, more frequent data collection helps minimize timing error and improves graph fitting (R^2) for kinetic analysis.