

Experiment 1: Gravimetric Determination of Iron as Fe₂O₃

Grading Rubrics for _____

Notebook (out of 8): _____

- 1: No new dates
- 1: Missing page numbers
- 1: Two sets of data without units
- 1: Missing observations
- 2: Incomplete documentation of numerical data
- +1 (only to offset notebook points lost): Excellent documentation

Data Analysis (out of 12) _____

- 1: Small math error
- 1: Problems with n
- 1: Wrong uncertainty in formula mass of Fe
- 1: Wrong uncertainty in formula mass of Fe₂O₃
- 1: Wrong uncertainty in experimental mass of Fe₂O₃ product
- 1: Wrong uncertainty in experimental mass of ore samples
- 1: Confused systematic and random error in discussion
- 1: Wrong sign for a systematic error
- 1: No conclusion (true for four out of eight groups!!)
- +1 (only to offset data analysis points lost): Excellent discussion/conclusion

Accuracy and Precision of Results (out of 5) _____

- 1: Poor precision (~10% relative error)
- +1: Great precision (~1% relative error)

TOTAL (out of 25) _____