SCIENTIFIC WRITING  
STUDENT IMRD CHECKLIST

INTRODUCTION

__ State purpose of experiment

__ State hypothesis (summary of expected outcome)  
(Example hypothesis: “It was predicted that as temperature of the solution increased, the rate of dissolution would increase.”)

__ Explain background information such as theories, reactions, and formulas that justify the hypothesis

__ Mention type of experiment performed (exploring/observing phenomenon, testing a theory)

METHODODOLOGY

__ Summarize procedure in paragraph form, not a list

__ Include quantitative/numerical values for measurements

__ Omit details for steps that would not matter if someone did them differently

__ Contains enough clarity that someone else could replicate the procedure based on the writing.

RESULTS

(data/tables/graphs)

DISCUSSION

__ Restate purpose of experiment

__ State whether data supports hypothesis

__ Mention trends in data with calculations of percent error

__ Use past tense when referring to procedure or data; use present tense when referring to graphs or tables

__ Explain any unexpected results

Include a conclusion that contains:

__ summary of experiment

__ explanation of how experiment broadly relates to fundamental principle, property, or idea