

# Laboratory Experiment Rubric Physics

Teacher Use Only	
Total score:	
Possible score:	50
Grade:	

Name: \_\_\_\_\_ Period: \_\_\_\_\_

Experiment: Identification of an Unknown Metal Using Calorimetry

As you write up your experiment, mark the boxes and blanks in the *student* (st) column () for each item you believe you have done correctly. (If you think you left something out or didn't do it correctly, *don't* check the box for it.) Note that not all checkboxes apply to all experiments. The teacher will mark the checkboxes in the left (tc) column and the totals for each section. Give some thought to this process—you get points for accurate assessment of your work!

## Experiment

- 4 3 2 1 (Teacher Use Only)
- performed experiment
- contributed sufficiently to lab group
- good/safe lab practices
- adequate clean-up

Total: \_\_\_\_\_ /16 (4 points each)  
tc

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## Title & Objective

- tc st
- title included
- objective clearly stated

Total: \_\_\_\_\_ /2  
tc

## Plan

- tc st
- included
- describes how you plan to achieve the objective
- describes what you need to do & measure

Total: \_\_\_\_\_ /3  
tc

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## Notes (Original Data)

- tc st
- original procedure notes included
- original data included

Total: \_\_\_\_\_ /2  
tc

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## Procedure

- tc st
- included
- all materials and equipment listed/mentioned
- set-up of apparatus sketched and labeled
- complete and accurate procedure (sufficient detail to re-create experiment)
- procedure is easy to follow/understand (could be used by a classmate)

Total: \_\_\_\_\_ /5  
tc

## Data & Observations

- tc st
- included
- complete data/measurements/observations recorded
- units included in all measurements
- experiment performed carefully/accurately (usually  $\pm 15\%$ )

Total: \_\_\_\_\_ /4  
tc

## Analysis

- tc st
- included
- relates to objective & based on data
- calculations and/or graphs shown
- data analysis complete & correct
- quantitative error analysis included & correct
- likely sources of uncertainty/error described

Total: \_\_\_\_\_ /6  
tc

## Conclusion

- tc st
- included
- relates to objective
- summarizes results and analysis

Total: \_\_\_\_\_ /3  
tc

## Format, Etc.

- tc st
- handwritten
- names of lab partner(s) included
- on time (+5)   1-2 days late (+3)
- rubric sheet filled out by student
- student's rubric sheet agrees with teacher's ( $\pm 3$  items)

Total: \_\_\_\_\_ /9  
tc