Grade Rubric for the Penny Density Lab Formal Report

1 pt Title

3 pt Intro Density formula, how to measure graphically

 Water displacement method

 Penny history

2 pt Purpose Old penny density (pre 1982)

 New penny density (post 1982)

2 pt Hypothesis Which higher density?

 Justified.

3 pts Procedure Steps from handout

 Past tense, First person

 What YOU DID specifically, including equipment

3 pts Data Old penny data table

 New penny data table

 Preliminary measures

3 pts Results 2 mass and volume tables

 2 graphs w/ lines (attached)

 2 slope calculations = densities.

3 pts Discussion 1) Old penny % error to 8.96 Cu

 2) Pick metal closest to New penny

 3) two sources of error

2 pts Conclusion 1) Answers purpose by reporting 2 densities

2) answers hypothesis by comparing, confirm or refute

3 pts Format Parts present and in order, Properly labeled with name dates etc…

 Spelling grammar readable

 Sigfigs and units on all measurements