

## LAB ERROR STATEMENT (Under the Lab Handout)

It isn't enough to just tell people what a source of error is! You need to explain how that error impacted your answer by thinking about the math involved.

- 1) Was your  $C_{\text{brass}}$  too big or too small?
- 2)  $Q = mC\Delta T \rightarrow$  Rearrange the equation to show  $C =$

IF...

C is too big  $\rightarrow$  Q might be...

m might be...

$\Delta T$  might be...

C is too small  $\rightarrow$  Q might be...

m might be...

$\Delta T$  might be...

- 3) You need to make sure that you always explain which actual LAB ERRORS caused the "math reason" for your answer to #1. This "Sources of Lab Error Statement" should be in the following format:

*(Lab Error)* which caused *(which variable)* to be too *(big or too small?)* which caused the specific heat of brass to be too *(big or too small?)*

Look at your answer to Q#1 and think about the answers to Q#2 and work with your lab group to pick ONE source of lab error that makes sense with your answer to Q#1. Write a "Sources of Lab Error Statement" below.