# Lab Work What makes a good Data / Results Table? Name_____

## Data / Results Table:

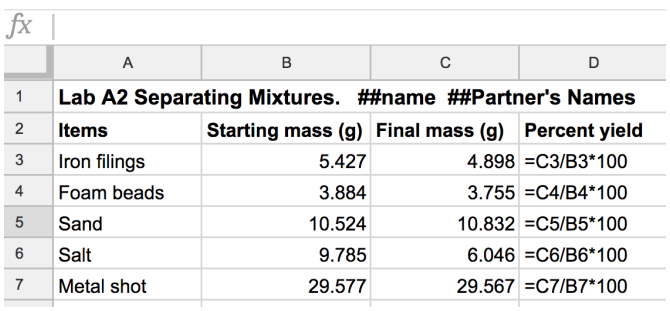
- Google Sheet.
  - Name your sheet: (your) **LAST** (name, then your) **FIRST** (then) **Labs**
  - Share ONCE with the teacher with full permissions. Use this same sheet for the entire year - no need to re-share.
- Always put a title IN EACH new data table.
  - The typed 4-part title should include the (1) **LAD letter # #**, and (2) **a short descriptive title**, and (3) **your name** (4) **partner's names** (Don't know their name(s)? Ask them.)
  - On the tab at bottom of Google Sheet type JUST the LAD **Letter & number**, no title
  - Each time you make a new tab pull your new tab to the LEFT side of the list.
- Plan ahead
  - Columns and rows. Usually you will be listing your measured and calculated items in the first column.
  - Always at least 3 columns of data, you may have several sets of data, put it all in the SAME table. Trial 1, Trial 2, Sample Data, etc.
  - It's best to set the table up in portrait not landscape.
  - When you print your Google sheet - Landscape is the default, please change to PORTRAIT.
  - You should work on your embeded your calculations BEFORE lab day, this will count for part of your lab grade.
- One sheet of paper (though it does not need to fill the sheet)
  - Avoid going on to a second page. Yet you do not need to try to fill the page.
  - Columns and rows of appropriate width and height. Learn to drag the columns to different widths. Do NOT skip a column because your typing is too long. Change the width of the column and/or learn to use the wrap text format.
  - Put in your borders with a purpose. (Don't leave it up to Google.)
- Units (g, ml, etc)
  - Do NOT put units in the cells of the spread sheet, only numbers − Spreadsheets will not know how to calculate it a number has letters in with it.
  - Put units at the head of the columns or rows as appropriate (Thus you only need type them once.)

## How do you know what to type in your data / results table?

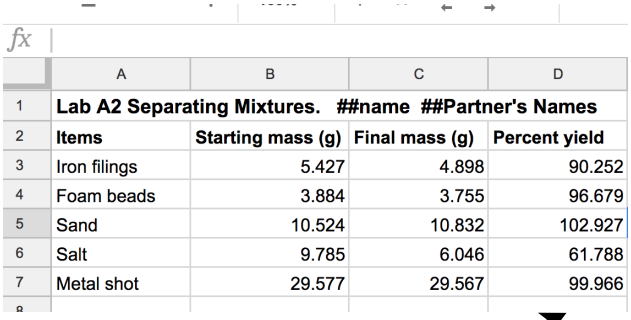
- Data
  - Read the Procedure of the lab carefully looking for cue words like "measure, take the mass of, record, determine...etc" which tell you that there is data to be collected. There must be a separate line item for every item measured.
  - Do something to distinguish data from results. Use the **bold**, *italics*, or fill feature to distinguish measurements from calculations.
- Results
  - In the Processing the Data section of the Lab, words like "calculate, determine, average, compute" tell you that there is a calculation to be made and you will need to report it on the data/results table.
  - There should be a separate line item for each calculation.

## Embedded calculations: *(to be completed before the lab if possible and improved during "down time" in the lab and while doing the calculations right after the lab – do NOT leave it until later when you may not be able to remember what you did.)*

- Each calculation must begin with an = sign.
- holding control and tilde (~) at the same time will toggle between seeing your formulas as shown to the right, and seeing the calculation, as shown below.



| | A | B | C | D |
|---|---|---|---|---|
| 1 | Lab A2 Separating Mixtures. ##name ##Partner's Names | | | |
| 2 | Items | Starting mass (g) | Final mass (g) | Percent yield |
| 3 | Iron filings | 5.427 | 4.898 | =C3/B3*100 |
| 4 | Foam beads | 3.884 | 3.755 | =C4/B4*100 |
| 5 | Sand | 10.524 | 10.832 | =C5/B5*100 |
| 6 | Salt | 9.785 | 6.046 | =C6/B6*100 |
| 7 | Metal shot | 29.577 | 29.567 | =C7/B7*100 |



| | A | B | C | D |
|---|---|---|---|---|
| 1 | Lab A2 Separating Mixtures. ##name ##Partner's Names | | | |
| 2 | Items | Starting mass (g) | Final mass (g) | Percent yield |
| 3 | Iron filings | 5.427 | 4.898 | 90.252 |
| 4 | Foam beads | 3.884 | 3.755 | 96.679 |
| 5 | Sand | 10.524 | 10.832 | 102.927 |
| 6 | Salt | 9.785 | 6.046 | 61.788 |
| 7 | Metal shot | 29.577 | 29.567 | 99.966 |