

Lab Book Organization

3UE: February 2, 2010

Criteria:

Planning (P), Data Collection (DC), Data processing and presentation (DPP), Conclusion and Evaluation (C & E)

The following should be the complete contents of your Lab Book.

1. Lab 1: Density of a cube: Topic 11
simply attach the paper copy, with the work completed on the sheet, in the lab book.
2. Lab 2: Thickness of aluminium sheet: Topic 11
perform the calculations in the Lab Book, including all the error propagation. Attach the paper copy in the lab book.
3. Lab 3: Chalk, H₂O and Candy Lab: Topic 1.1
perform all the calculations on the actual sheets, write the candy lab on the back of the water or the chalk lab. Then attach the sheets in the lab book.
4. Lab 4: Number of Molecules in a Chemical: Topic 1.2
write the lab in the lab book: the planning procedure and the calculations etc.
5. Lab 5: Percent Composition of MgO: Topic 1.2
Only DC and DPP, (answering all the questions), are required to be written in the lab book.
6. Lab 6: Formula of a Hydrate: Epsom Salt: Topic 1.2.6
Write the planning and perform all DC, DPP and DE and Conclusion in the Lab Book.
7. Lab 7: Stoichiometry: Mass relationship of a chemical reaction: Al and CuCl_{2(aq)}: Topic 1.2.6
Perform all the DC, DPP and DE & C in the lab book.
8. Lab 8: Empirical Formula of Magnesium oxide: topic 1.2.4
Use the DC from Lab 5: % composition of MgO to determine the empirical formula of magnesium oxide. Perform all DC and DPP in the lab Book.
9. Double Displacement reactions, 1.5
10. Making Solutions, 1.5
11. Stock solution and dilute solution, 1.5
12. Determining solubility of a salt, 1.5
13. Simulation of an Air Bag, 1.4
14. Determination of Percentage of NaHCO₃ in an Alka-Seltzer tablet, 1.4
15. Volume and Temperature relationship, ITC, 1.4
16. Determination of Molar Volume of a Gas, ITC, 1.4
17. Gravimetric Analysis, Determination of percentage of Lead (II) iodide, 1.5
18. Planning Lab: Stoichiometry of precipitation of CaCO₃, 1.5
19. Electrolytes and Non-Electrolytes, 1.5
20. Strong and Weak Acids and Bases, ICT, 1.5
21. Bronsted - Lowry Acids and Bases, 1.5
22. Planning Lab: Identification of 6 solutions as acids, bases, strong or weak, 1.5

23. Titration: Standardization of NaOH using KHP, 1.5
24. Plotting a Titration Curve for a strong acid and base using pH probes, ICT, 1.5
25. Determination of percentage of ASA in Aspirin, Option D: Drugs and Medicine
26. Determination of Concentration of a Solution using a Spectrophotometer, 1.5

27. Testing liquids for Polarity : topic 14
28. Planning Lab: Recognizing Types of Solids-Bonding, Topic 14
29. Lab Activity: Polarity of Molecules and Types of IMFA's , Topic 14
30. Lab- ITC-Molecules and Networks, Topic 14
31. Hydrogen Spectrum, Topic 14
32. Variation in Atomic Properties-Atomic Radius and Ionization Energy