

The scientific method

Science



The Scientific Method Hands-On Labs, Inc. Version 42-0130-00-01 Lab Report

Assistant This document is not meant to be a substitute for a formal

laboratory report. The Lab Report Assistant is simply a summary of the

experiment's questions, diagrams if needed, and data tables that should be

addressed in a formal lab report. The intent is to facilitate students' writing

of lab reports by providing this information in an editable file which can be

sent to an instructor. Observations Data Table 1: Scientific Method Data

Unknown Sample Number #1 #2 #3 #4 #5 #6 Hypothesis: Coffee Potting

soil Brown sugar Baby powder Flower Baking powder Color: Dark brown Old

copper(sepia, maroon) Light Brown White White White Texture: It's coarse&

fragile particle Very coarse and gritty The particle is sticky and a bit gritty

Very Soft particle & silky Very soft Very soft Shape: In general, it's coarse-

grained Not regular Coarse-grained Very fine. It's difficult to look in detail

Coarse-grained Coarse-grained Smell: It's totally coffee No smell or a faint

scant Sweet taste Very nice. It's just delicate baby smell No smell No smell

Soluble: Soluble Insoluble Soluble Soluble Soluble Soluble Density: The dense

is less than baby powder(0. 182 g/cm³) Little dense/it's similar as #6(0. 5

g/cm³) Low dense (0. 467 g/cm³) High dense (0. 867 g/cm³) It's similar as

#6 (0. 454 g/cm³) It's similar as #5 (0. 5 g/cm³) Conclusion: Coffee Potting

soil Brown sugar Baby powder Flower Baking powder Data Table 2:

Calculating Density of Unknown Samples U nk no wn S a m p l e Number

Mass of full vial & bag (g) Mass of empty vial & bag (g) Mass of unknown

sample (g) Volume (cm³) Density (g/cm³) #1 2. 0g 1. 8g 0. 2g 1. 1 cm³ 0.

182 #2 2. 5g 1. 8g 0. 7g 1. 4 cm³ 0. 5 #3 2. 5g 1. 8g 0. 7g 1. 5 cm³ 0. 467

#4 3. 0g 1. 8g 1. 2g 1. 5 cm³ 0. 867 #5 2. 3g 1. 8g 0. 5g 1. 1 cm³ cm³ 0.

454 #6 2. 5g 1. 8g 0. 7g 1. 4 cm³ 0. 5

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