

Moles, Mass, and Volume Worksheet

As you work through the steps in the lab procedures, record your experimental values and the results on this worksheet.

Table A: Popcorn Kernels Counted in 30 Seconds

Trial #	1	2	3	4	Average
# of kernels counted in 30 s					

Table B: Mass of Popcorn and Marbles

Mass of empty beaker	g
Mass of beaker and 12 popcorn kernels	g
Mass of 12 popcorn kernels	g
Mass of one popcorn kernel	g/kernel
Mass of beaker and 12 marbles	g
Mass of 12 marbles	g
Mass of one marble	g/kernel

Table C: Volumes of Water and Marbles

Mass of 50 mL graduated cylinder	g
Volume of water	mL
Mass of cylinder and water	g
Mass of water	g
Density of water (mass/volume)	g/mL
Initial volume of water in 100 mL graduated cylinder	mL
Volume of water and 12 marbles in cylinder	mL
Volume of 12 marbles	mL
Mass of 12 marbles (From Part B)	g
Density of the marbles (mass/volume)	g/mL