

THE MASS OF A MOLE

OBJECTIVE: Finding the mass of a mole.

Purpose: To become familiar with a mole of different substances.

Safety, Handling, and Disposal: Do not touch or smell chemical substances.

Materials: Scale, periodic table, calculator. Beakers with different substances.

1. Calculate the Molar mass for every chemical substance, write it down in table 2
2. Use the scale to find the mass of every sample. The mass of the beaker is indicated on the label.

Record the mass of the sample in table 1.

BEAKER	A	B	C	D	E	F	G	H
Mass of this sample								
Number of mole	0.10	0.20	0.10	0.10	0.10	0.10	0.05	0.10

4. Try to associate the chemical compounds and the beakers.

CHEMICAL COMPOUND	MOLAR MASS	MASS (grams)	NUMBER OF BEAKER
$C_6H_{12}O_5$			
KBr			
$KMnO_4$			
$CaCl_2$			
KIO_3			
Na_2CO_3			
$CaCO_3$			
KOH			