The Law of Conservation of Mass

All matter is made from small particles called atoms. Atoms are too small for our eyes to see. Mass is the amount of matter in a substance or object. A physical change is a change in the state or shape of matter that does not create a new substance. A chemical change is a change that occurs to matter when a new substance is formed.

Our question for today is: When matter goes through a physical or a chemical change, does the mass of the matter change? Can atoms be destroyed or created during chemical reactions?

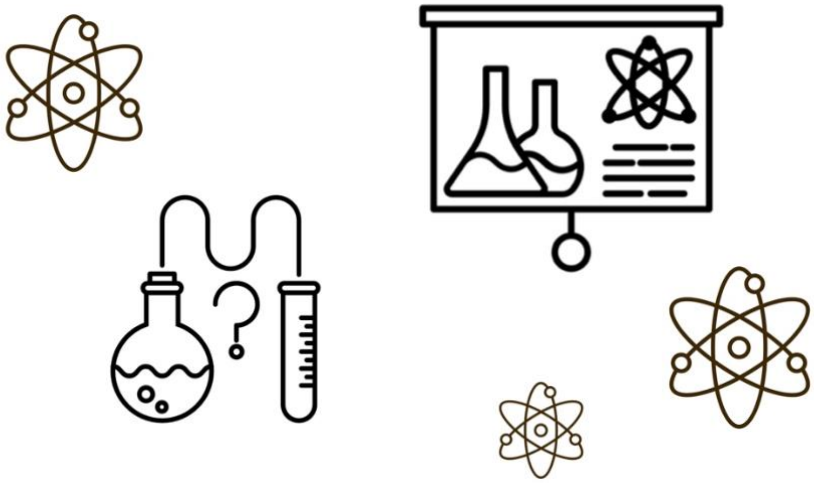
What do you think? YES or NO

Conservation of Mass Word find!

R	E	T	T	A	M	L	R	L	I
S	D	C	H	E	M	I	C	A	L
S	U	L	I	O	G	J	N	C	N
C	M	B	A	A	O	O	A	I	S
H	G	O	S	C	I	S	D	S	M
A	B	M	T	T	I	C	Y	Y	A
N	M	P	C	A	A	M	W	H	L
G	C	A	P	W	A	N	E	P	L
E	E	A	S	S	A	M	C	H	I
R	C	T	H	I	D	V	U	E	C

Words to find:

MATTER
CHEMICAL x2
PHYSICAL
CHANGE
REACTION
MASS
SMALL
SUBSTANCE
ATOMS



Demonstration Diagram and Data Analysis

Reaction #1

Overall **Conclusions** for Reaction #1:

Substances being used in reaction #1:

_____ and _____

Starting mass of reaction: _____

Visual observations during reaction:

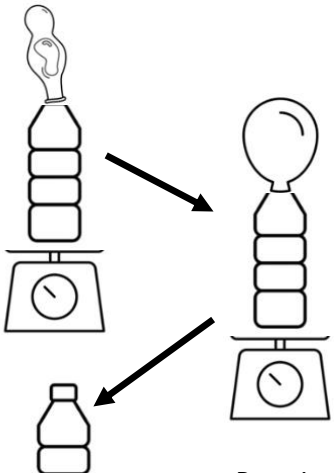
_____

_____

Ending mass of reaction: _____

Was there a change in mass? _____

Reaction #2 (A & B)



Part A

Part B

Overall **Conclusions** for Reaction #2:

Substances being used in reaction #2:

_____ and _____

Starting mass of reaction: _____

Visual observations during Part A:

_____

_____

Ending mass of Part A: _____

Part A is called a closed/open system. (circle)

Visual observations during Part B:

_____

_____

Ending mass of Part B: _____

Part B is called a closed/open system. (circle)

Was there a change in mass between Part A and Part B? _____ Explain below: