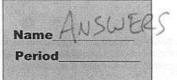
Turning Unbalanced Reactions into Balanced Reactions

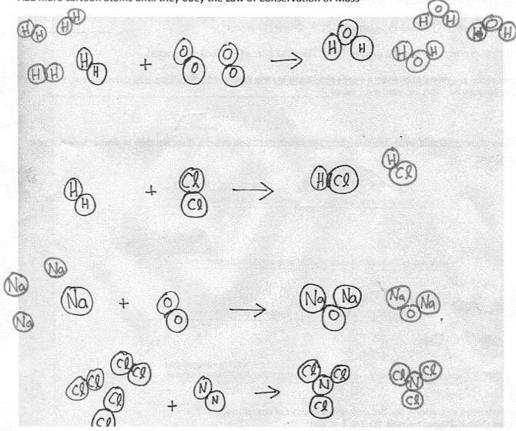
CheMis+ry: http://genest.weebly.com

Stop in for help every day at lunch and Tues &Thurs after school!





Add more cartoon atoms until they obey the Law of Conservation of Mass



Don't continue until you get a stamp here ->

Write the unbalanced equations for the following chemical reaction. Write formulas (like H2O) and phases (like s, I, g, aq):

1) When wax (C₂₂H₄₄) burns in oxygen, carbon dioxide, water and heat are produced

Answers

Some of these are impossible because the mass of the Products is different from the mass of the Reactants. If a reaction is possible, write POSSIBLE in the blank. Otherwise, write into the blank space what number of grams would make it possible.

2. Hubba (16 grams) + Hubba (16 grams) - DoubleHub (30 grams)

3. Hiphip (3 grams) + Hooray (14 grams) - Cheer (17 grams)

4. Ping (1.5 grams) + Pong (38 grams) - Tick (17 grams) + Tock (22 grams)

Data and Observations. Don't write anything into the blank until you draw a diagram that is similar to what you drew on the front.

6.

Diagram:

Diagram:

7.

Write the unbalanced equations for the following chemical reactions. Write formulas (like H2O)and phases (like s, I, g, aq):

- 8. For the reaction Fe + Cl2 -> FeCl3 solve for the missing mass, using the law of conservation of mass in each case.
 - a. If 44 grams of iron react with 65 grams of chlorine, how much iron(III)chloride should form?

109 grams

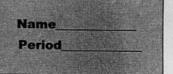
b. If 44 grams of iron react and 100 grams of iron(III)chloride form, how many grams of chlorine reacted? 44g+(56g)= 100g

Answer: 56 grams

Please go to Lab Data Blog at http:genest.weebly.com to submit a famous figure from Black History. I'll give extra credit if we use your choice!







1.	In the below reaction	draw a big box	around the products.	Draw a circle around the	Reactants.
(2Col + 70	\ \ ucn	. (11 0		

2. What does the Law of Conservation of Mass say must ALWAYS ALWAYS ALWAYS be true about the mass of the Reactants in any reaction in the history of the entire Universe?

	1	THE STATE OF THE S		,
total	mass before	the	reaction after the	must
0911a	total	mass	after to	reaction

1. How many oxygen atoms are present in each of these?

a	5	_ 5H₂O	b. 9CO ₂ 18
C	9	$Al_2(CO_3)_3$	d. 2H ₂ SO ₄ Q

2. For each equation, just do a scoreboard below it to PROVE whether it is balanced or not.

ı.	$2H_{2(g)} +$	$N_{2(g)}$	→ 3	NH ₃
		before		after
		4	н	9
		2	N	3

	SAL DEFINITION OF	CONTRACTOR OF THE PARTY OF THE
This equation is	(balanced	Vambalana d
Amis equation is	(Dalanceu	// unparanced

According to the Law of Conservation of Mass, this equation would be (impossible / possible)

ь.	6H _{2(g)} +	2N _{2(g)} → 41		NH _{3(g)}
		before		after
		4	N	ч
		12	н	12

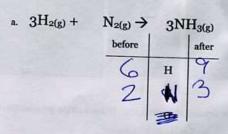
This equation is	(kalanced / unbalanced)
According to the	Law of Conservation of
Mass, this equat	ion would be (impossible /

c. $2C_4H_8 + 12O_2 \rightarrow 8CO_2 + 8H_2O$

before		after
16	н	16
8	C	8
201	0	200
24		29

This equation is (balanced / unbalanced)

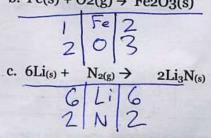
According to the Law of Conservation of Mass, this equation would be (impossible / possible)



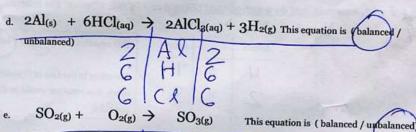
This equation is (balanced / unbalanced) In real life, this equation would be (impossible / possible)

For each equation, just do a scoreboard below it to PROVE whether it is balanced or not.

This equation is (balanced / inbalanced



This equation is (balanced) unbalanced)



Mark true/false for each and then, if II correctly explains I circle CE

In nature, the Law of Conservation of because Mass always works

II The mass of the products in a reaction is less than the mass of the reactants





CE