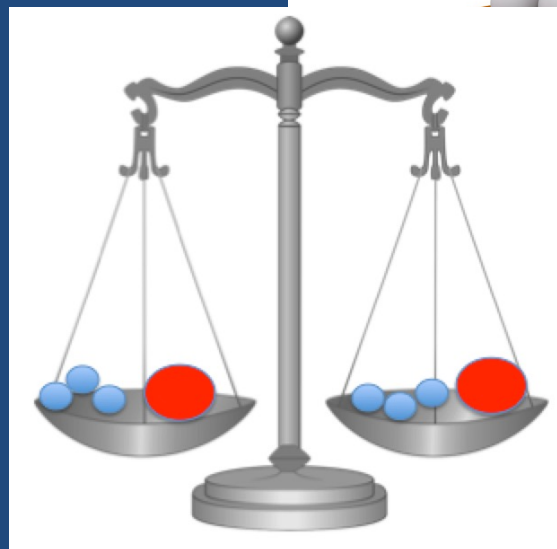


Balancing Chemical Reactions

- Balancing Chemical Reactions
- Rules For Balancing
- What Not To Do
- Practice



Preview File

Please enjoy this preview of your Student Version of the presentation. Please note within this sample file:

- Some slides appear blank because they have been removed
- Student versions have portions of the text removed which is given in the teacher version and appear as _____ which the students are to fill in
- Other slides may have on them, this represents writing that has been removed on this sample

The paid full version of your resource includes both Google Slides and PowerPoint and is Google Classroom Ready

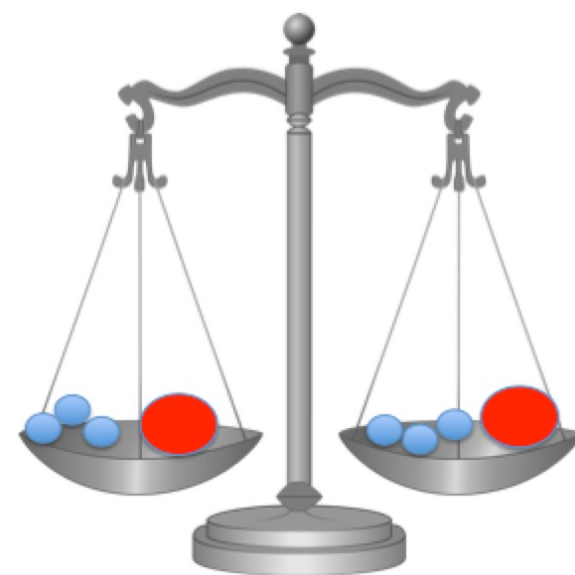


Balanced Chemical Equations

- _____

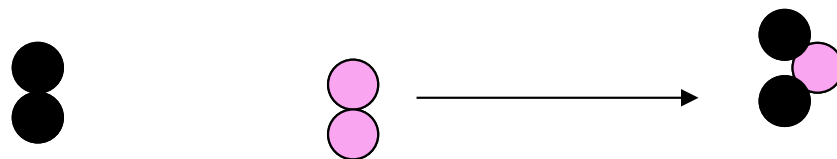
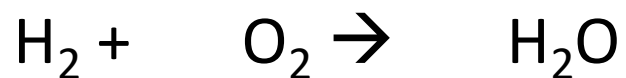
– All the atoms that we start with must also be present at the end

- _____



Chemical Reactions

While the reactions show what is used up and what is produced, they do not reflect the proper number of each type of atom required for the reaction.



How many oxygen atoms are on the right?

How many oxygen atoms are on the left?

Does this make sense? What happened to that other oxygen atom?

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Rules For Balancing

- 1) Assemble the correct formulas for all the reactants and products, using “+” and “→”.
- 2) _____
- 3) Balance the elements *one at a time* by adding *coefficients* (the numbers in front) where you need more - save balancing the H and O until LAST!
(hint: I prefer to save O until the *very* last)
- 4) Double-Check to make sure it is balanced by counting the atoms on both sides.



Never

-

- If you change the subscript (formula) you are describing a different chemical.
 - H_2O is a different compound than H_2O_2

-



Check Your Understanding

In more complicated chemical reactions, we may want to use a chart to keep track of the number of each kind of atom,



1) Now let's count the atoms. What needs to be fixed? Choose one.

Add a coefficient to balance that atom only. Update the chart.

2) Count

Element	Before	After
C	1	1
H	4	2
O	2	3

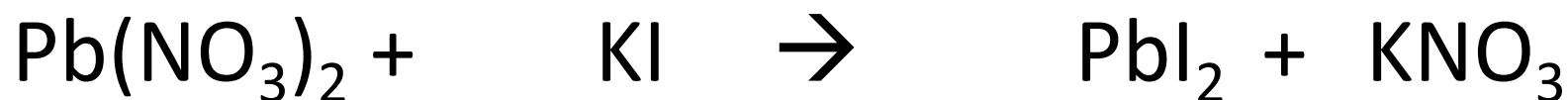
Element	Before	After
C		
H		
O		

Element	Before	After
C		
H		
O		

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Check Your Understanding

Note: If there is a polyatomic that sticks together then you can balance it as a whole.



Check Your Understanding

