

BALANCING EQUATIONS

Cornell Doodle Notes TEACHER NOTES

These scaffolded Cornell Doodle Notes combine two effective note-taking strategies and can be used to introduce the concept of balancing chemical equations. These notes are meant to be an introduction to the process and they do not cover polyatomic ions. NGSS MS-PSI-5 (Develop and use a model to describe how the total number of atoms does not change in a chemical reaction and thus mass is conserved) and HS-PSI-7 (Use mathematical representations to support the claim that atoms, and therefore mass, are conserved during a chemical reaction). These notes also highlight the crosscutting concepts of patterns, and energy and matter.

Cornell Notes are a note-taking strategy in which topic questions are written in a narrow left-hand column and definitions, explanations, and diagrams are filled in in the right-hand column. At the bottom of Cornell Notes, there is typically a section included for reflection on the lesson's main points. See the example to the right.

Doodle Notes (or Sketch Notes) are another note-taking strategy for which pictures and graphics activate the visual pathways of the brain, which helps with retention of information when compared to standard note-taking. Your visual learners will really benefit from seeing and coloring in the pictures aside the main points of the notes!

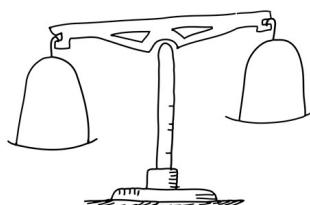
Doodle Notes is a registered trademark used with permission. See DoodleNotes.org for more details.

The image shows two examples of note-taking methods. On the left is a Cornell Note-Taking Method template with columns for Cues, Name, Date, Topic, Class, Notes, Taken During Class, and Summary. It includes sections for Written Soon After Class, Anticipated Exam Questions, Main Ideas or People, Vocabulary Words, and Used for Review & Study. A diagram shows the width of the notes as 6" and the width of the margin as 2½". Below this is a Doodle Notes example for 'Balancing Equations'. It features a title, essential question, topic questions, and a chemical equation $\text{Fe} + \text{S} \rightarrow \text{FeS}$. The notes include hand-drawn balloons and cartoon characters representing atoms.

Balancing Equations

Cornell Doodle Notes

ESSENTIAL QUESTION: How does the Law of Conservation of Mass apply to chemical reactions?



I created a Powerpoint that goes with these notes. The Powerpoint walks the students through the lesson from the Essential Question and through all of the Topic Questions. There is a "Sum It Up" section at the end of the notes, for which students practice applying the concepts. This section includes a short 'Quick Watch' TedEd video on the Law of Conservation of Mass.



SEE THE PRINTING TIPS ON NEXT PAGE

On the following pages, you will find 4 versions of the Cornell Doodle Notes:

KEY The KEY : pages 4-7 : All notes and "answers" are included on this version

Green Circle : pages 8-11 : Use this version for your lower-level students who need more support, take more time, or who are learning English as a second language...they will have to fill in missing words

Blue Square : pages 12-15: Use this version for your mainstream students...they will have to write the topic questions and fill in some words throughout

Black Diamond : pages 16-19 : Use this version for your high-level students who work more quickly or who like to write in their own handwriting...they will have to fill in all of the topic questions and more of the text throughout the notes

Note: the "Sum It Up" section is the same for all student versions.

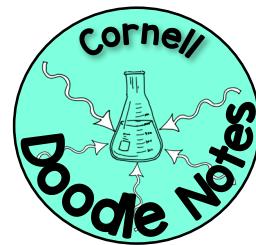
On the next page are the directions for accessing the Powerpoint for this product via Google Drive (Google Slides). This is obviously option depending on how you choose to use this in your classroom.

Here are some ways that I suggest using this resource:

- 1) **Whole-Group lesson with differentiation** : decide which students should receive which level of the notes. Hand out the notes to the students. Use the Powerpoint as a presentation and talk aloud through the lesson while the students take notes. Allow them to color/doodle further during and at the end of the lesson.
- 2) **Differentiated Small-Group lesson** : separate your students into groups by learning level. Give each student group sets of the appropriate notes for their level. Make sure each group has a device to view the presentation. Post the Powerpoint or Google Slides to your Google Classroom or other online learning platform, or email the Powerpoint version to one 'student leader' in each group. The students would view the Powerpoint/Slides together on one device and fill in the notes. Encourage them to add color/further notes.
- 3) **Individual Note-Taking or Flipped Classroom** : Post the Powerpoint or Google Slides presentation to your Google Classroom or other online learning platform. Hand out the appropriate-level notes to each student. Students can work at their own pace to view the presentation and complete their notes. Encourage them to add color/further notes.

Thank you very much for your purchase!
If this product has met your needs,
please consider leaving feedback at
TeachersPayTeachers.com or feel free to
email me at SunriseScienceTPT@gmail.com
with any questions or concerns!
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You may also be
interested in my other
Cornell Doodle Notes
products! Click on the
picture to the right!





PRINTING TIPS!

It depends how you'd like your students to use these notes. They can be printed one-sided and folded up into an interactive notebook, or you can print them double-sided and have students keep them in binders/folders.

If you print them double-sided, this is what I suggest doing:

- In the print settings on Adobe/Reader, keep the "Auto Orientation" button selected
- Click "FLIP ON LONG EDGE"
- Type in the page numbers that you'd like to print and the number of copies

Printing the notes this way will avoid your students having to rotate their paper when they go to the next side. Instead, they will flip and the left and right columns will be in the same place!

BALANCING EQUATIONS

PRINTING TIPS!

EXAMPLE COLORED NOTES

GOOGLE DRIVE DIRECTIONS

CLICK ON THIS LINK TO ACCESS YOUR PURCHASE IN GOOGLE!:

<https://tinyurl.com/y9nceb8e>

When you click the link above, you'll be taken to a screen that says "Copy Document". Click the blue button that says "Make a Copy". This will transfer the file to your own Google Drive account.

Preferably, share this resource with your students through your Google Classroom, OR once all of your students have their own Google Drive account (drive.google.com), share the above link with them and have them make their own copy of the assignments into their own Google Drive.

Balancing Equations

**ESSENTIAL
QUESTION:**

How does the Law of Conservation of Mass apply to chemical reactions?

TOPIC QUESTIONS:

1

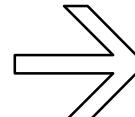
What is a chemical equation?

A chemical equation is like a 'story' telling what happens during a chemical reaction.
Iron and sulfur are heated to yield iron sulfide.

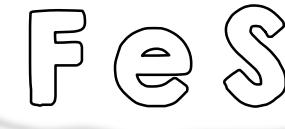
IRON



SULFUR



IRON SULFIDE



The substances on the left are called the reactants.

The arrow in a chemical equation is called 'YIELD'.

The substances on the right are called the products. The product's properties are different from those of the reactants.

2

How are chemical formulas used in a chemical equation?

A chemical formula tells us which elements are in a chemical compound and how many atoms of each element there are.

Do Label each part of the equation. Then, explain or show how the pictures relate to the equation.

REACTANTS:

HYDROGEN GAS

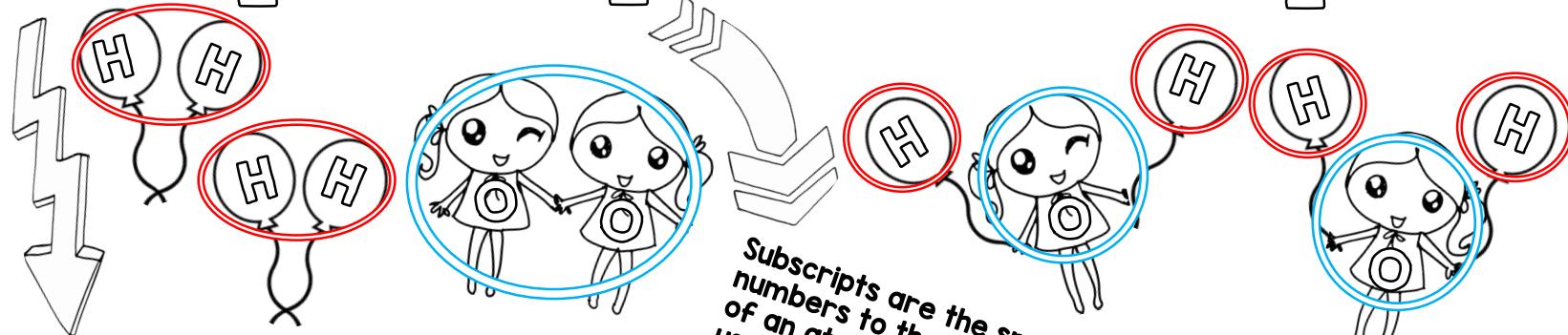


OXYGEN GAS



YIELDS

PRODUCT: WATER



Coefficients are the BIG number in front of each atom or chemical formula. This number applies to EVERY type of atom in the formula. If there is not a coefficient, then it is an invisible 1!

The two H₂ molecules split and the O₂ molecule split. They recombined to form two molecules of H₂O, hence, 2H₂O as the product.

TOPIC QUESTIONS:

KEY

3

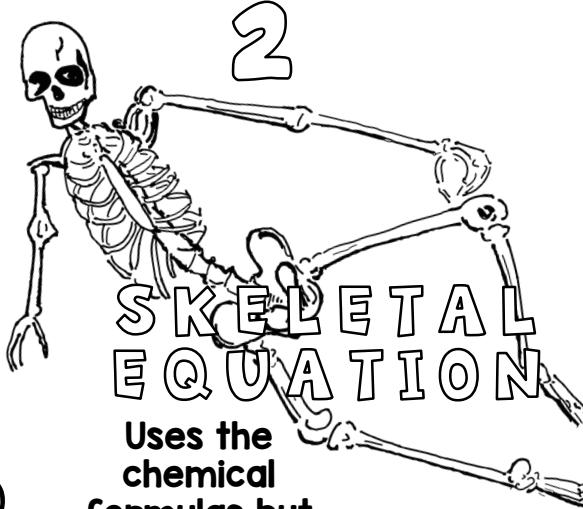
What are the ways that a chemical equation can be written?

1

WORD EQUATION

Uses only words and no formulas.

WORDS



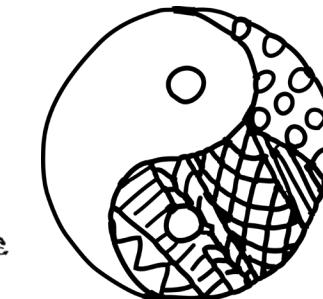
2

SKELETAL EQUATION

Uses the chemical formulas but no coefficients.

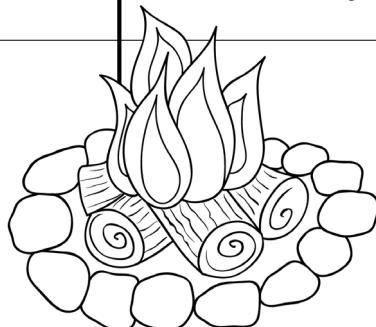
3

BALANCED EQUATION



Uses coefficients to show the correct ratio of reactants and products.

4



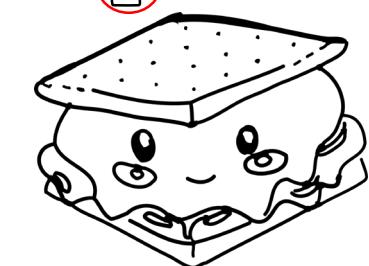
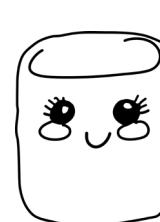
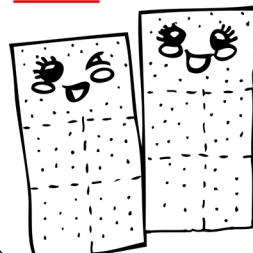
What is a balanced equation?

Do

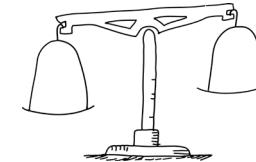
Underline each coefficient and circle each subscript.

A balanced equation has the same number of each type of 'thing' on both sides. Let's use an analogy! - S'mores! Graham crackers (Gc), marshmallow (Mm), and chocolate squares (Cs) combine to yield a s'more.

To make a complete s'more, you'll need 2 graham crackers, 1 marshmallow, and 3 chocolate squares:



Is the equation balanced? YES



Reactants	'Ingredient'	Products
2	graham crackers	2
1	marshmallow	1
3	chocolate squares	3

How would your equation change if you needed to make 4 s'mores? You can ONLY change coefficients!



Double check: is your new equation balanced? YES

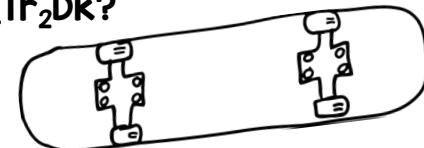
TOPIC QUESTIONS:

4

What is a balanced equation?
(continued)

YOU TRY!

To make a skateboard you need 4 wheels (Wh), 2 trucks (Tr), and 1 deck (Dk). Can you write the 'equation' for making a skateboard if the chemical formula for the final product, the skateboard, is $\text{Wh}_4\text{Tr}_2\text{Dk}$?

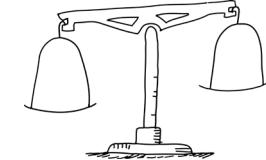


Count the number of each type of part on each side of the equation.

Reactants	'Part'	Products
4	wheels	4
2	trucks	2
1	deck	1

Is the equation balanced?

YES

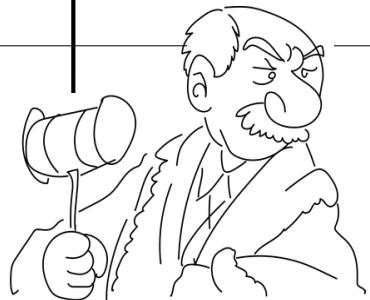


How would your equation change if you needed to make 3 skateboards? You can ONLY change coefficients!



5

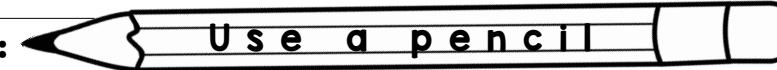
What steps do you need to follow when balancing a chemical equation?



Chemical reactions abide by the LAW OF CONSERVATION OF MASS.

This Law states that matter is neither created nor destroyed in a chemical reaction. In other words, all atoms that were present in the beginning are also present afterwards—their arrangement is just different.

To balance a chemical equation:



1 Start with the Skeletal Equation



2 Set up a "RAP" table

Reactants	Atom	Products

3 Count the number of each type of atom on each side of the equation



6 HAVE
NO
FEAR

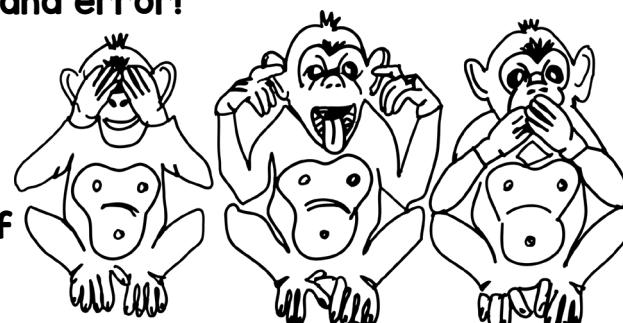
Try starting with the leftmost element and work your way to the last. It's all trial and error!

5

IMPORTANT! You can never, ever, ever change a subscript of a chemical formula!

4

Insert whole coefficients *in front of* chemical formulas in the equation until both sides of the RAP table are equal

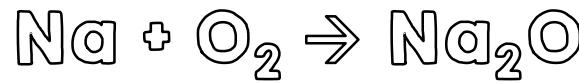


TOPIC QUESTIONS:

5

What steps do you need to follow when balancing a chemical equation? (continued)

Example: Sodium reacts with oxygen to yield sodium oxide.



Reactants	Atom	Products
1	Na	2
2	O	1

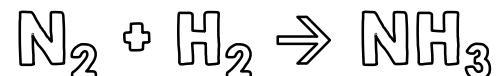


Trial and error: If we multiply the Na by 2, then the sodium will be balanced, but the oxygens still won't. If we multiply the Na_2O by 2, then the oxygens will balance (2) but the sodium won't.

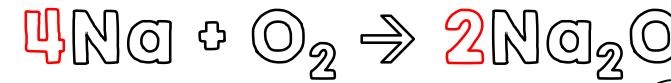


BUT since we'll then have 4 Na atoms on the right, we can multiply the Na on the left by 4 and balance both the oxygen and the sodium.

YOU TRY! Nitrogen gas reacts with hydrogen gas to yield ammonia.



Reactants	Atom	Products
2	N	1
2	H	3

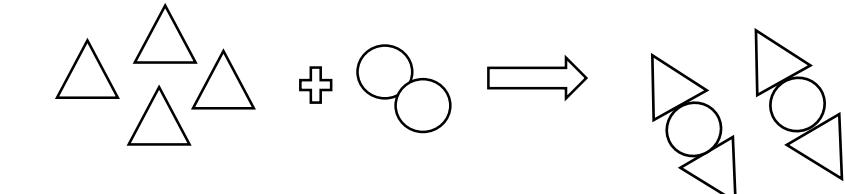


Reactants	Atom	Products
4	Na	4
2	O	2



Notice that we did not change subscripts. We only added coefficients!

Do Draw a picture to represent this balanced equation using shapes.



SUM IT UP!

1. Use the "word bank" to create the skeletal chemical equation being described by the word equation.

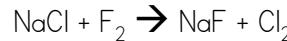
MnO ₂	H ₂ O	HCl	MnCl ₂	Cl ₂
------------------	------------------	-----	-------------------	-----------------

Hydrochloric acid combines with manganese oxide to yield manganese chloride plus water plus chlorine gas.



2. What can you NEVER EVER do to balance a chemical equation? You can never change subscripts!

3. Balance the following equation:



Reactants	Atom	Products
1	Na	1
1	Cl	2
2	F	1



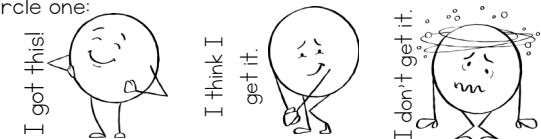
QUICK WATCH:

TedEd The Law of Conservation of Mass
<https://tinyurl.com/hykqgrd>

\$2 SUMMARY:

Write a summary of the video clip. You have \$2 and each word costs 10 cents.

How are you feeling about the concept of balancing chemical equations? Circle one:



Name: _____

Class: _____ Date: _____

Balancing Equations

**ESSENTIAL
QUESTION:**
How does the Law of _____ of Mass apply to chemical _____?
TOPIC QUESTIONS:**1****What is a chemical _____?**

A chemical equation is like a '_____' telling what happens during a chemical _____.

Iron and sulfur are heated to _____ iron sulfide.



The _____ on the left are called the _____.

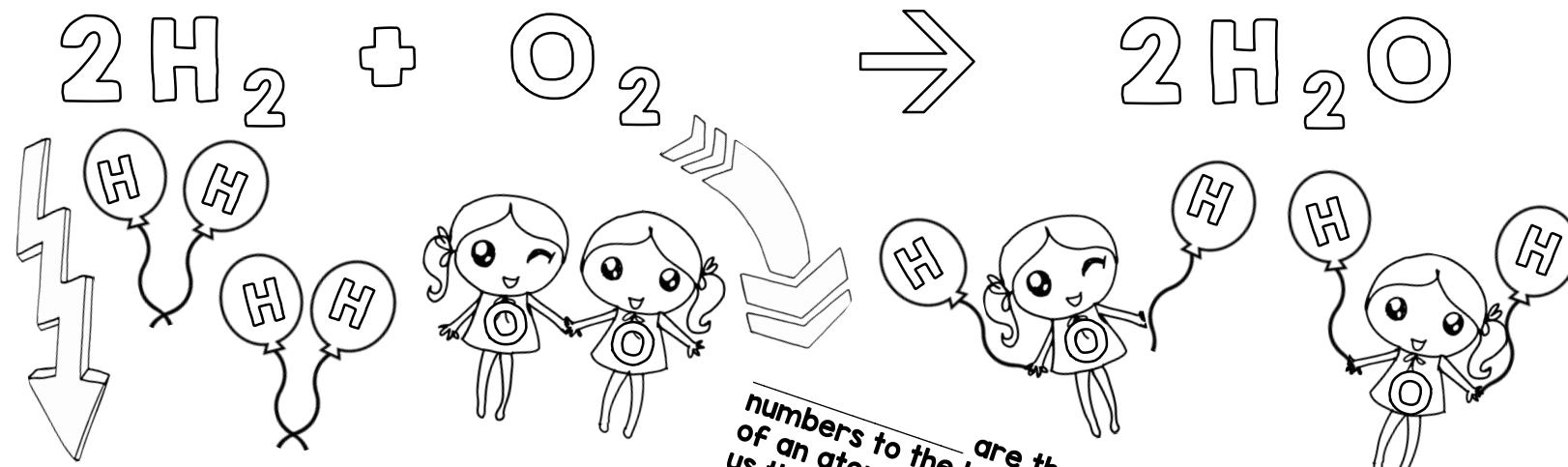
The _____ in a chemical equation is called '_____'.
The substances on the _____ are called the products. The _____ properties are from those of the reactants.

2

How are chemical _____ used in a chemical equation?

A chemical formula tells us which _____ are in a chemical compound and how many _____ of each element there are.

Do Label each part of the equation. Then, explain or show how the pictures relate to the equation.



_____ are the BIG number in front of each atom or chemical formula. This number applies to _____ type of atom in the formula. If there is not a coefficient, then it is an invisible 1!

are the small numbers to the bottom right of an atom. This number tells us the number of atoms of that element.

TOPIC QUESTIONS:

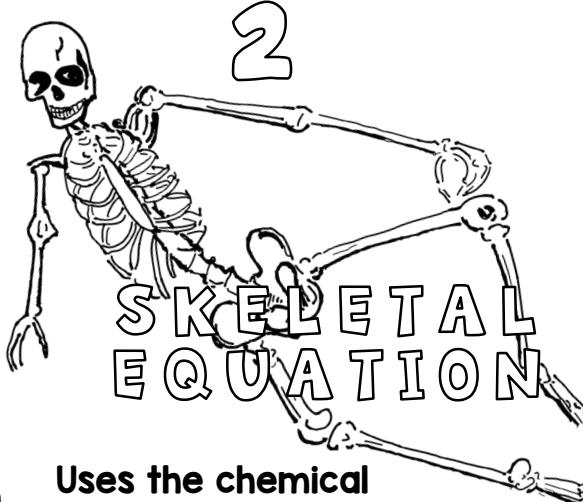
3

What are the ways that a chemical equation can be _____?

1

EQUATION

Uses _____ words
and no formulas.

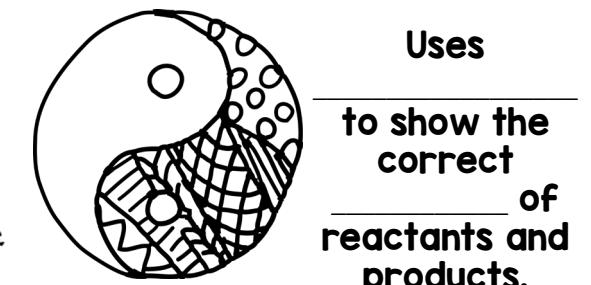
WORDS

2

SKELETAL EQUATION

Uses the chemical
_____ but
_____ coefficients.

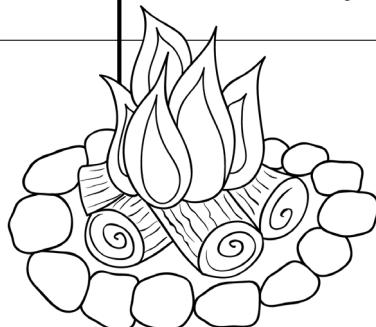
3

EQUATION

Uses

to show the correct
_____ of
reactants and
products.

4

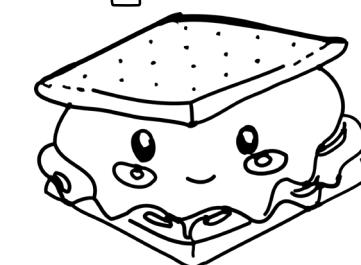
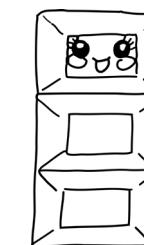
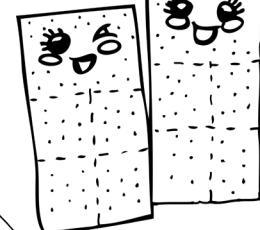


What is a

equation?

Do

Underline each coefficient and circle each subscript.

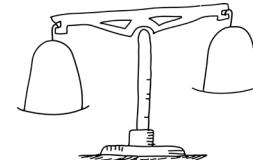


Do

Count the number of
each type of
ingredient on
each side of
the equation.

Reactants	'Ingredient'	Products

Is the equation balanced?



How would your equation change if you needed to make 4 s'mores? You can ONLY change coefficients!



Double check: is your new equation balanced?

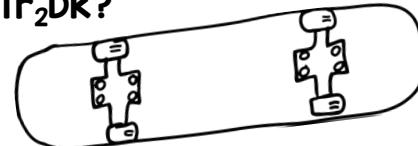
TOPIC QUESTIONS:

4

What is a balanced equation?
(continued)

YOU TRY!

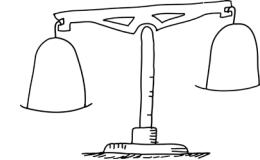
To make a skateboard you need 4 wheels (Wh), 2 trucks (Tr), and 1 deck (Dk). Can you write the 'equation' for making a skateboard if the chemical formula for the final product, the skateboard, is Wh_4Tr_2Dk ?



Count the number of each type of part on each side of the equation.

Reactants	'Part'	Products

Is the equation balanced?

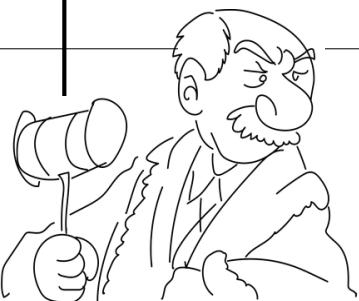


How would your equation change if you needed to make 3 skateboards? You can ONLY change coefficients!

5

What _____ do you need to follow when

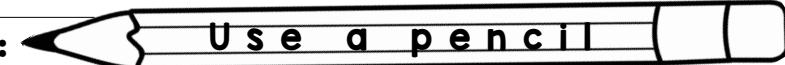
a chemical equation?



Chemical reactions abide by the LAW OF _____ OF MASS.

This Law states that matter is neither _____ nor _____ in a chemical reaction. In other words, all _____ that were present in the beginning are also _____ afterwards—their _____ is just different.

To balance a chemical equation:

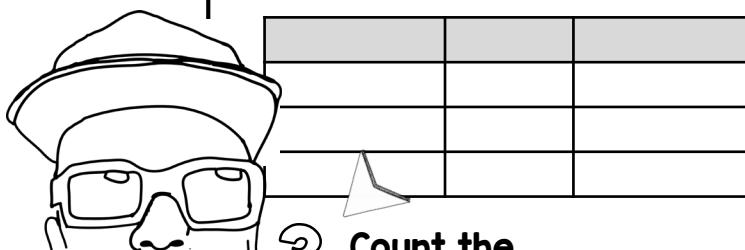


1 Start with the _____ Equation

6 HAVE NO FEAR Try starting with the _____ element and work your way to the last. It's all _____ and _____!

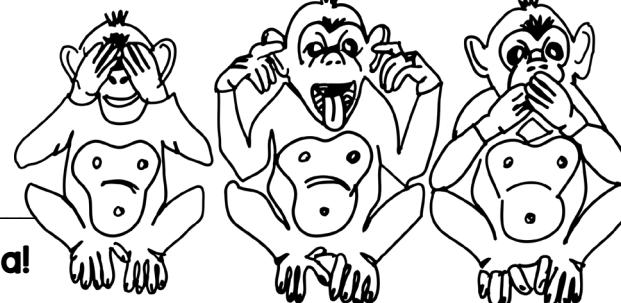
2 Set up a "_____ " table

5 IMPORTANT! You can never, ever, ever change a _____ of a chemical formula!



3 Count the _____ of each _____ of atom on each _____ of the equation

4 Insert _____ coefficients in front of chemical formulas in the equation until both sides of the RAP table are _____

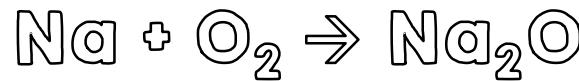


TOPIC QUESTIONS:

5

What steps do you need to follow when balancing a chemical equation? (continued)

Example: Sodium reacts with oxygen to yield sodium oxide.



Reactants	Atom	Products
	Na	
	O	

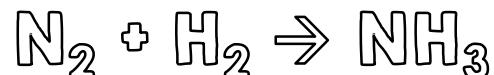


Trial and error: If we multiply the Na by ___, then the sodium will be balanced, but the oxygens still won't. If we multiply the Na_2O by ___, then the oxygens will balance (2) but the sodium won't.

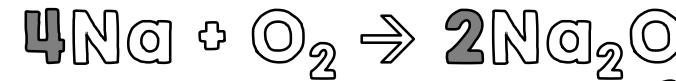


BUT since we'll then have ___ Na atoms on the ___ ($2\text{Na}_2\text{O}$) we can multiply the Na on the left by 4 and balance both the oxygen and the sodium.

YOU TRY! Nitrogen gas reacts with hydrogen gas to yield ammonia.



Reactants	Atom	Products
	N	
	H	



Reactants	Atom	Products
	Na	
	O	



Notice that we did not change subscripts. We only added coefficients!

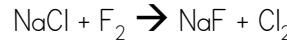


Do Draw a picture to represent this balanced equation using shapes.

SUM IT UP!

1. Use the "word bank" to create the skeletal chemical equation being described by the word equation.

3. Balance the following equation:



MnO ₂	H ₂ O	HCl	MnCl ₂	Cl ₂
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Hydrochloric acid combines with manganese oxide to yield manganese chloride plus water plus chlorine gas.

2. What can you NEVER EVER do to balance a chemical equation?

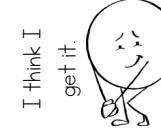
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Balancing Equations

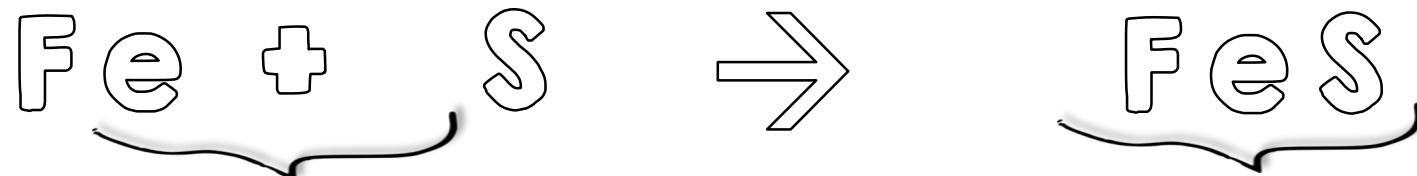
ESSENTIAL QUESTION:

TOPIC QUESTIONS:

1

A chemical equation is like a '_____' telling what happens during a chemical _____.

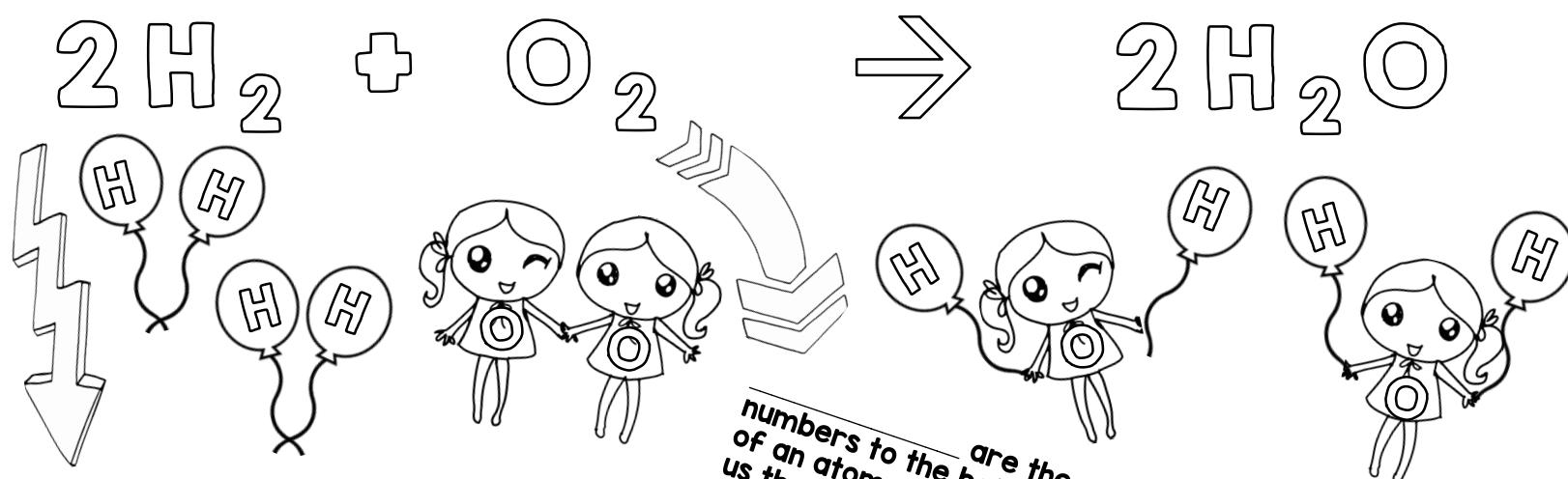
Iron and sulfur are...



2

A chemical formula tells us...

Do Label each part of the equation. Then, explain or show how the pictures relate to the equation.



_____ are the BIG number in front of each atom or chemical formula. This number applies to _____ type of atom in the formula. If there is not a coefficient, then it is an invisible 1!

are the small numbers to the bottom right of an atom. This number tells us the number of atoms of that element.

TOPIC QUESTIONS:

3

EQUATIONWORDS

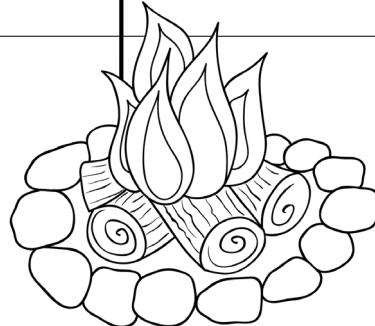
A balanced equation has...

Let's use an analogy! - S'mores! Graham crackers (____), marshmallow (____), and chocolate squares (____) combine to _____ a s'more.

To make a complete s'more, you'll need ___ graham crackers, ___ marshmallow, and ___ chocolate squares:

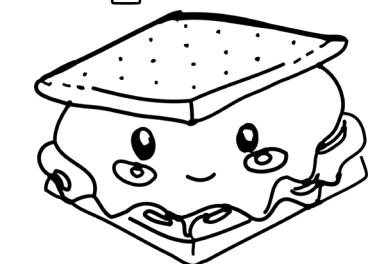
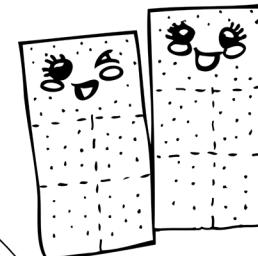


4



Do

Underline each coefficient and circle each subscript.

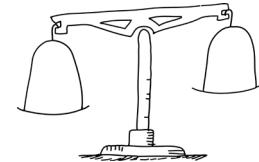


Do

Count the number of each type of ingredient on each side of the equation.

Reactants	'Ingredient'	Products

Is the equation balanced?



How would your equation change if you needed to make 4 s'mores? You can ONLY change coefficients!

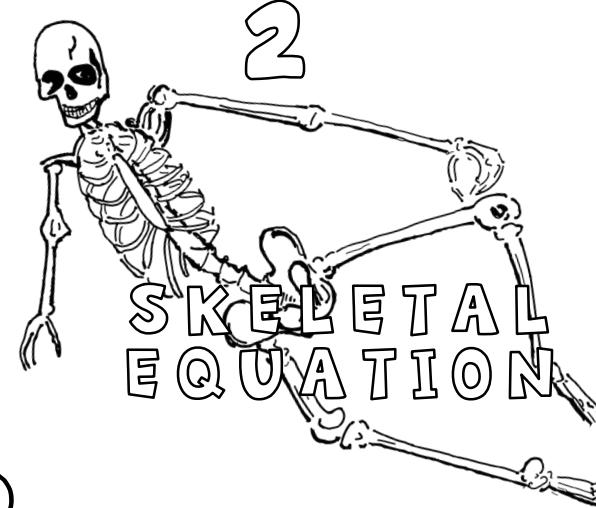
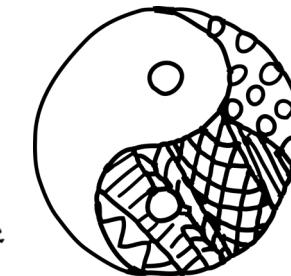


Double check: is your new equation balanced?

1

2

3

EQUATION

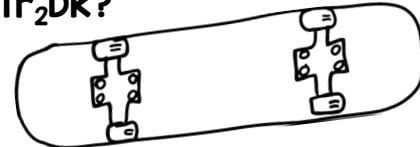
TOPIC QUESTIONS:

4

What is a balanced equation?
(continued)

YOU TRY!

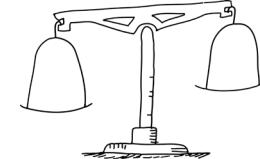
To make a skateboard you need 4 wheels (Wh), 2 trucks (Tr), and 1 deck (Dk). Can you write the 'equation' for making a skateboard if the chemical formula for the final product, the skateboard, is $\text{Wh}_4\text{Tr}_2\text{Dk}$?



Count the number of each type of part on each side of the equation.

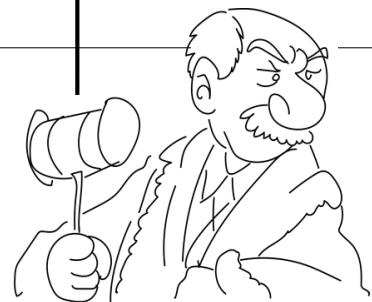
Reactants	'Part'	Products

Is the equation balanced?



How would your equation change if you needed to make 3 skateboards? You can ONLY change coefficients!

5

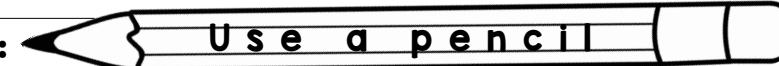


Chemical reactions abide by...

This Law states that...

In other words, all _____ that were present in the beginning are also _____ afterwards—their _____ is just different.

To balance a chemical equation:



1

2



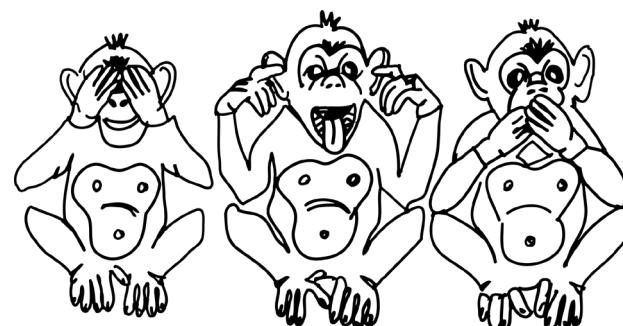
3

6 HAVE
NO
FEAR

5

IMPORTANT! You can never, ever, ever...

4

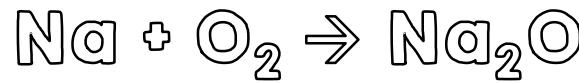


TOPIC QUESTIONS:

5

What steps do you need to follow when balancing a chemical equation? (continued)

Example: Sodium reacts with oxygen to yield sodium oxide.



Reactants	Atom	Products

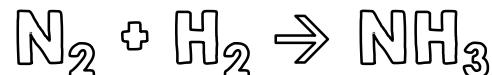


Trial and error: If we multiply the Na by ___, then the sodium will be balanced, but the oxygens still won't. If we multiply the Na_2O by ___, then the oxygens will balance (2) but the sodium won't.

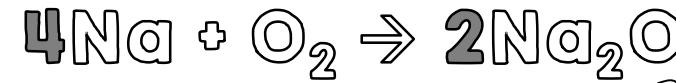


BUT since we'll then have ___ Na atoms on the ___ (2 Na_2O) we can multiply the Na on the left by 4 and balance both the oxygen and the sodium.

YOU TRY! Nitrogen gas reacts with hydrogen gas to yield ammonia.



Reactants	Atom	Products



Reactants	Atom	Products



Notice that we did not change subscripts. We only added coefficients!

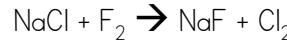


Do Draw a picture to represent this balanced equation using shapes.

SUM IT UP!

1. Use the "word bank" to create the skeletal chemical equation being described by the word equation.

3. Balance the following equation:



MnO_2	H_2O	HCl	MnCl_2	Cl_2
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Hydrochloric acid combines with manganese oxide to yield manganese chloride plus water plus chlorine gas.

2. What can you NEVER EVER do to balance a chemical equation?

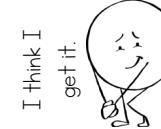
QUICK WATCH:

TedEd The Law of Conservation of Mass
<https://tinyurl.com/hykqgrd>

\$2 SUMMARY:

Write a summary of the video clip. You have \$2 and each word costs 10 cents.

How are you feeling about the concept of balancing chemical equations? Circle one:



Name: _____

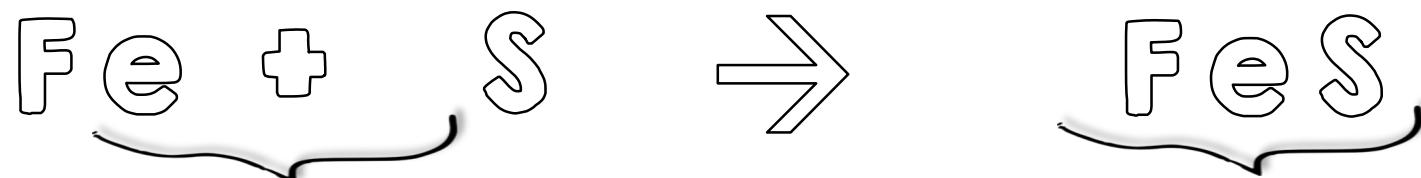
Class: _____ Date: _____

Balancing Equations

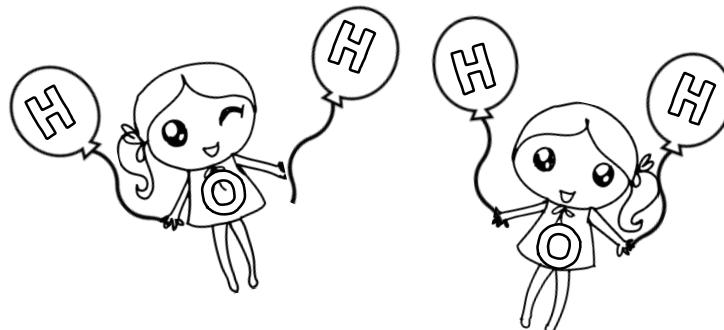
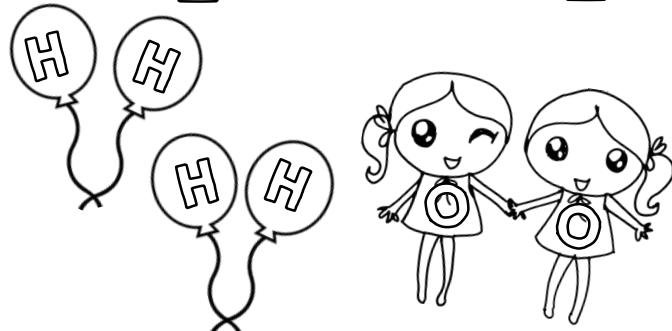
ESSENTIAL
QUESTION:

TOPIC QUESTIONS:

1



2

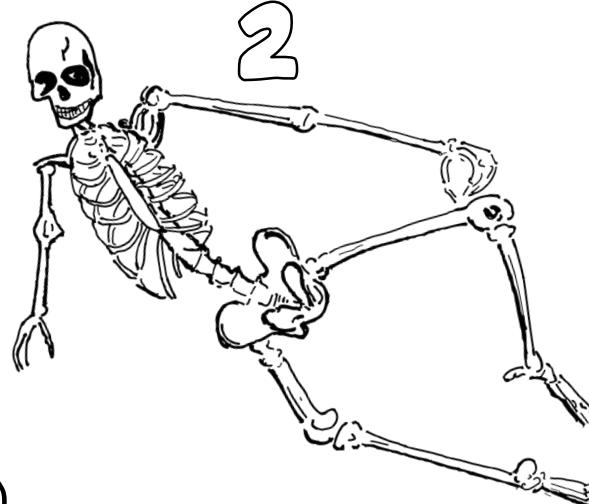


Label each part of the equation.
Then, explain or show how the
pictures relate to the equation.

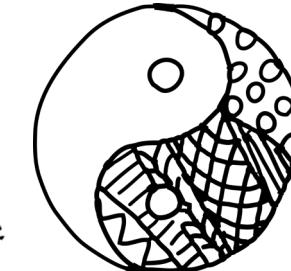
TOPIC QUESTIONS:

3

1



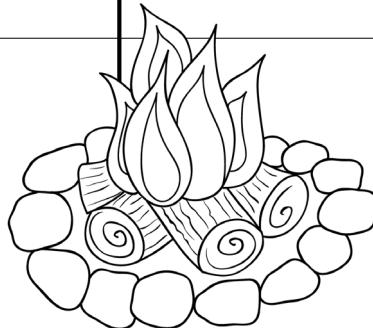
2



3

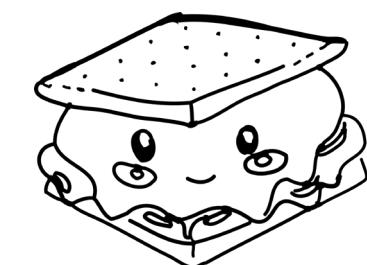
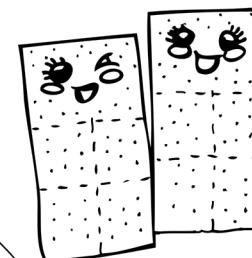
WORDS

4



Do

Underline each coefficient and circle each subscript.

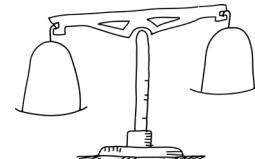


Do

Count the number of *each type of ingredient on each side of the equation.*

Reactants	'Ingredient'	Products

Is the equation balanced?



How would your equation change if you needed to make 4 s'mores? You can ONLY change coefficients!

Double check: is your new equation balanced?

TOPIC QUESTIONS:

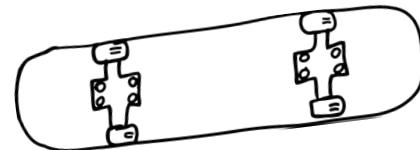
YOU TRY!

4

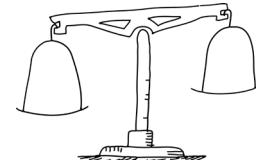
What is a balanced equation?
(continued)

Count the number of each type of part on each side of the equation.

Reactants	'Part'	Products

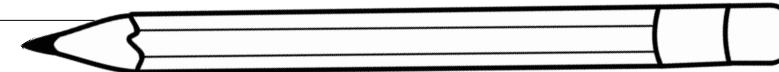
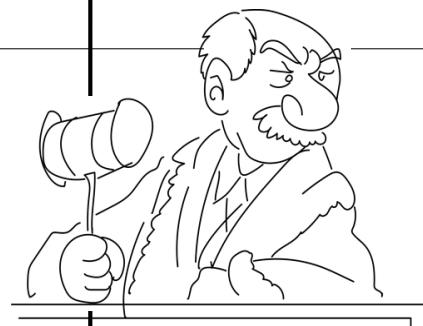


Is the equation balanced?



How would your equation change if you needed to make 3 skateboards? You can ONLY change coefficients!

5



1

2



3



5



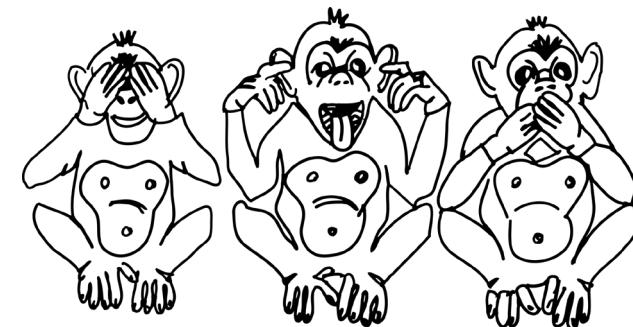
4



6 HAVE
NO
FEAR



5



TOPIC QUESTIONS:

5

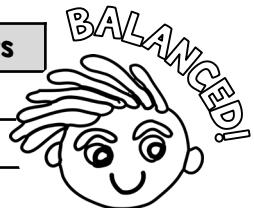
What steps do you need to follow when balancing a chemical equation? (continued)

Example:

Reactants	Atom	Products



Reactants	Atom	Products



Trial and error:



Draw a picture to represent this balanced equation using shapes.

YOU TRY!

Nitrogen gas reacts with hydrogen gas to yield ammonia.

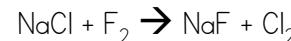
Reactants	Atom	Products

Reactants	Atom	Products

SUM IT UP!

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MnO ₂	H ₂ O	HCl	MnCl ₂	Cl ₂
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Thank you 😊 Karla @ Sunrise Science



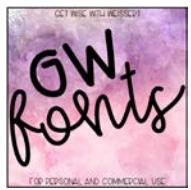
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