April 1 - April 12

Name: _____ Date: _____ Period: _____

Key Points	Details

Summary

Name: _____ Date: _____ Period: _____

Key Points	Details

Summary

Name: Date: Period:

www.learner.org/interactives/periodic/index.html

Key Points	Details

Summary

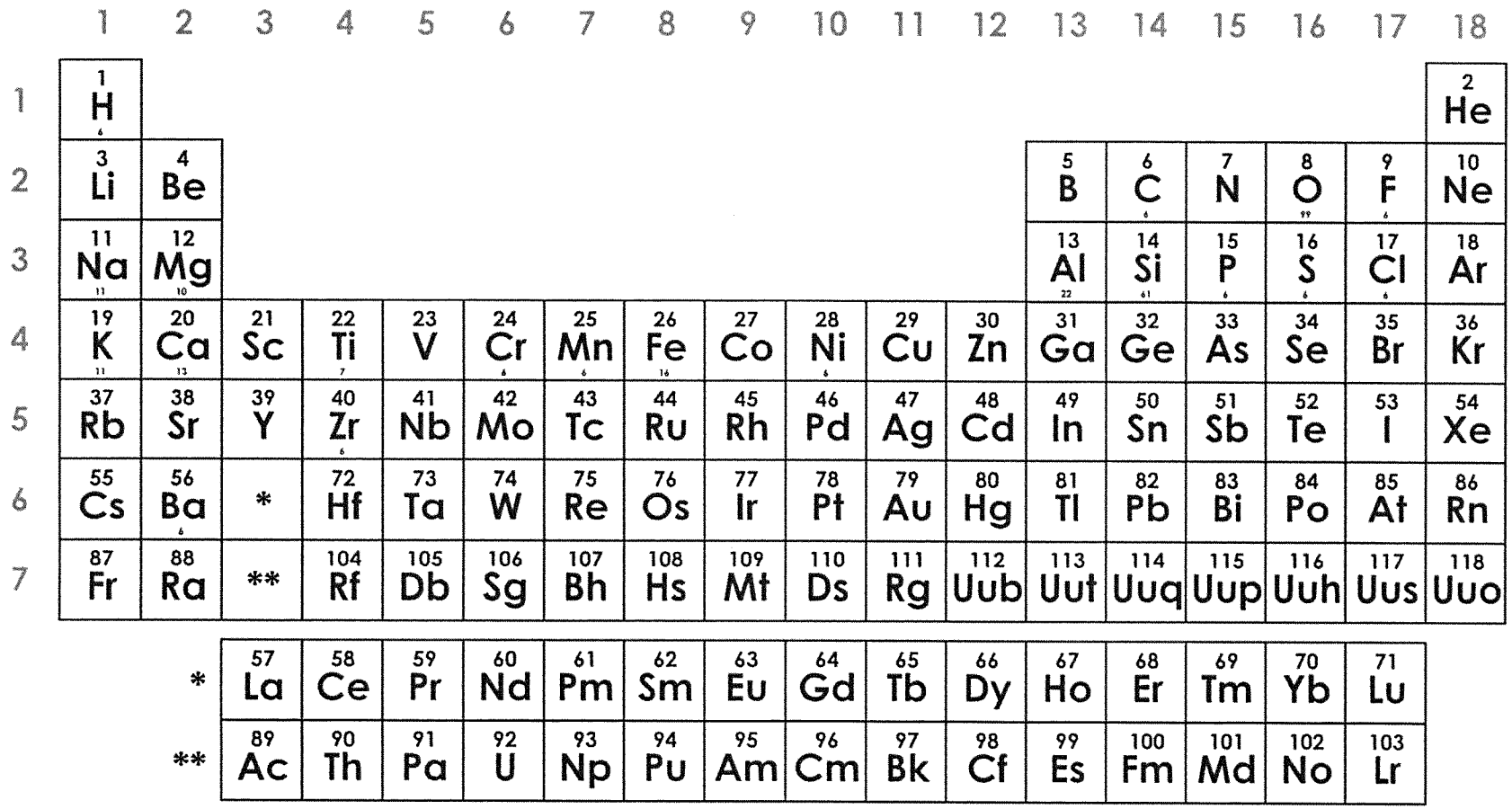
Name: _____ Date: _____ Period: _____

Interactives pg 2

Key Points	Details

Summary

Periodic Table of the Elements



Interactives: Periodic Table

Name: _____ Date: _____ Period: _____

Key Points	Details

Summary

Name_____ 5___

Build a Molecule Pre-Lab

1. We use symbols to represent atoms.

a. What is the chemical symbol for the atom Hydrogen?_____

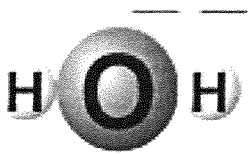
b. What is the chemical symbol for atom Oxygen?_____

c. What is the chemical symbol for the atom Carbon?_____

2. We use chemical formulas to represent individual molecules and groups of molecules. Write the chemical formula below each molecule or groups of molecules.

a. 

_____

b. 

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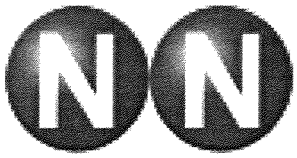
c. 

_____

___

d. 

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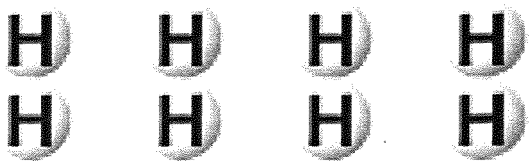
e. 

_____ ___

3. Try it!

a. Draw CO_2	
b. Draw $2H_2O$	
c. Draw $3N_2$	

Name: _____ 5___

Build a Molecule Computer Sim

Learning Goals:

1. Describe the difference between a molecule name and chemical formula.
2. Distinguish between the coefficient and subscript in a chemical formula.
3. Use pictorial representations of molecules to generate chemical formulas.

First Tab

1. Make a molecule:
   a. How do you know you made a molecule? _____
   b. Write the molecule **name** of some molecules you made (ex. Water).

_____ _____
_____ _____
_____ _____

2. Molecule Names and Chemical Formulas:
   a. Compare the name and chemical formula for some molecules:

Molecule Name	Drawing	Chemical Formula

Second Tab

3. Make Many
   a. Fill all the collection boxes and then complete the questions for each Goal.

Goal: $4H_2$	
Draw it!	
What does the big '4' in $4H_2$ mean?	
What does the little '$_2$' in $4H_2$ mean?	

Goal: $2CO_2$	
Draw it!	
What does the big '2' in $2CO_2$ mean?	
What does the little '$_2$' in $2CO_2$ mean?	

Goal: $2O_2$	
Draw it!	
What does the big '2' in $2O_2$ mean?	
What does the little '$_2$' in $2O_2$ mean?	

Goal: $2NH_3$	
Draw it!	
What does the big '2' in $2NH_3$ mean?	
What does the little '$_3$' in $2NH_3$ mean?	

Third Tab Challenge

4. What's the biggest molecule you can make?
   a. Molecule Name: _____
   b. Chemical formula: _____

5. Can you make a molecule that can be broken into smaller molecules?
   a. Big molecule **name**: _____
   b. Big molecule **chemical formula**: _____
   c. Smaller molecule **names**: _____
   d. Smaller molecule **chemical formulas**: _____

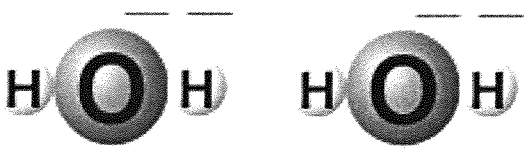
Name_____ 5___

Build a Molecule Post-Lab

1. We use chemical formulas to represent individual molecules and groups of molecules. Write the chemical formula below each molecule or groups of molecules.

a. 

_____

b. 

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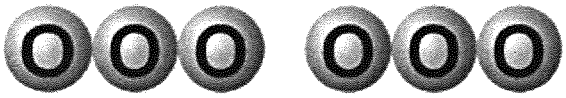
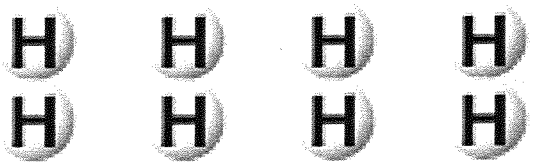
c. 

_____

d. 

_____

e. 

_____

2. Try it!

a. Draw $2CO_2$	
b. Draw $3H_2O$	
c. Draw $4N_2$	
d. Draw $2NH_3$	

3. Molecule Names vs. Chemical Formulas

a. Give an example of a molecule name: _____
b. Give an example of a chemical formula: _____
c. What is the difference between a molecule name and a chemical formula? _____
_____