

Name: _____

Period: _____

HW4:1 Guided Reading
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Assigned: Thurs., 11/2 and Fri., 11/3
Due: Mon., 11/6 and Tues., 11/7

1. Give two examples of everyday chemical reactions.
2. Give three signs that a chemical reaction has taken place (check under the pictures, too).
3. What happens to the bonds between atoms in a chemical change?
4. Are atoms created or destroyed in a chemical reaction?
5. What do we call the atoms that undergo a chemical change?
6. What do we call the result of a chemical change?
7. How are bonds broken in a chemical reaction?
8. What happens when new bonds are formed?

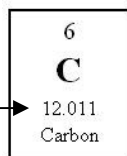
Use Figure 5-4 for the following:

9. Which side are reactants on?
10. Which side are products on?
11. What is the second reactant in that reaction?
12. What is the first product in that reaction?

Use what you just learned to answer the following: a
 $2\text{H}_2 + \text{O}_2 \rightarrow 2\text{H}_2\text{O}$

13. In the above reaction, underline the product side.
14. Circle the reactant side.

On the periodic table
the atomic mass tells you
how heavy each atom
of that element is.



6
C
12.011
Carbon

15. How heavy is one carbon atom?
16. How heavy is one hydrogen atom?
17. How heavy is one oxygen atom?

18. How many hydrogens are there in water?
19. How many oxygens are there in water?
20. Using this information, find the mass of a water molecule.
(Add up the masses of all of the atoms.)