**5th Grade Vocabulary: Chapter 12 The Structure of Matter**

**Here is your next vocabulary list! Every day we will cover new terms. Your homework each night is to write the word(s) we covered into the vocabulary section of your composition book and also make a new flash card from your index cards. Don’t get behind….this is a great way to prepare every evening for your test. Keep this paper in your science folder or folded in the vocabulary section of your composition book. We will use this sheet to begin reciting the vocabulary on the first day of each new chapter. Composition books and vocabulary cards will be graded during your test on test day. Always remember to have your vocabulary done on time!**

Essential Question –

* What is matter and how does its structure determine how I use it in my daily life?

Guiding Questions –

1. What is the structure of an atom?
2. How do scientists organize matter?
3. How are compounds formed and written into equations?

Begin this vocabulary section by writing this header at the top of your page:

**Chapter 12 – The Structure of Matter**

1. Atom – the smallest particle of an element that still has the properties of that element
2. Electron – particle in an atom that has a negative charge
3. Element – substance that cannot be broken down into other substances
4. Neutron – particle in the nucleus of an atom that has no charge
5. Nucleus – central core of an atom
6. Proton - Particle in the nucleus of an atom that has a positive charge
7. Chemical symbol – letter or letters that abbreviate an element’s name
8. Metal – any element on the left and bottom of the periodic table that tends to be shiny, malleable, and conducts electricity
9. Noble gas – any element in the far right column of the periodic table that generally does not combine with other elements
10. Nonmetal – any element usually on the upper right of the periodic table that tends to be dull, brittle, and does not conduct electricity
11. Periodic table – standardized table that organizes the elements by their properties
12. Semimetal – any element listed between the metals and nonmetals on the periodic table that has some properties of each group
13. Chemical formulas – shorthand way to describe the chemical makeup of a compound
14. Chemical reaction – process in which one or more substances are changed into one or more different substances
15. Compound – substance made of two or more elements that are chemically combined
16. Molecule – two or more atoms joined together by chemical bonds

This vocabulary is due the day of the test and is worth 32 points in the grade book. You earn one point for each word and definition in your composition book. Get started now!