



Assessment Date: ____/____/____ Student: _____ Examiner: _____
Words Read Correctly (WRC): _____ Errors: _____ Notes: _____

### Matter: All that Stuff

Just look around you and you will see “stuff” – tables, pencils, food, books,	14
animals, etc. Everything you see around you is made of matter. There are	27
more different kinds of things out there than we could ever list, but they are all	43
built of the same chemical building blocks. Even very complicated types of	55
matter like volcanoes or human bodies are made of combinations of elements.	67
Elements are substances that cannot be separated into simpler substances by	78
a chemical change. You may have seen a periodic table, which shows in chart	92
format over 100 elements that are known. For example, helium is an element.	105
Helium has the symbol He and is used to fill balloons. The element sodium has	120
the symbol Na and is part of what makes up the salt you put on your food. Au	138
is the symbol for gold, which can be made into jewelry.	149
Aluminum is also an element. A piece of aluminum foil is made up of many	164
atoms of aluminum. An atom is the smallest particle of an element that has the	179
same chemical properties as the element. All of the atoms that make up a	193
piece of aluminum foil are identical, but they are not the same as the atoms	208
that make up a different element. For example, titanium (which is used to make	222
baseball bats) is an element that is made up of titanium atoms. Aluminum	235
atoms and titanium atoms are not the same and the elements do not have the	250
same properties.	252



Just look around you and you will see “stuff” – tables, pencils, food, books, animals, etc. Everything you see around you is made of matter. There are more different kinds of things out there than we could ever list, but they are all built of the same chemical building blocks. Even very complicated types of matter like volcanoes or human bodies are made of combinations of elements.

Elements are substances that cannot be separated into simpler substances by a chemical change. You may have seen a periodic table, which shows in chart format over 100 elements that are known. For example, helium is an element. Helium has the symbol He and is used to fill balloons. The element sodium has the symbol Na and is part of what makes up the salt you put on your food. Au is the symbol for gold, which can be made into jewelry.

Aluminum is also an element. A piece of aluminum foil is made up of many atoms of aluminum. An atom is the smallest particle of an element that has the same chemical properties as the element. All of the atoms that make up a piece of aluminum foil are identical, but they are not the same as the atoms that make up a different element. For example, titanium (which is used to make baseball bats) is an element that is made up of titanium atoms. Aluminum atoms and titanium atoms are not the same and the elements do not have the same properties.