



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

Matter: All that Stuff Part 2

Atoms are very tiny. They are much too small to be seen with our eyes or even	17
with a regular microscope. It is now known that atoms contain three smaller	30
parts: protons, neutrons, and electrons. Most of the mass of an atom is in its	45
center or nucleus. The nucleus of an atom contains both protons and neutrons.	58
Protons are positively charged particles. The number of protons is what	69
determines the type of atom. Neutrons are also in the nucleus and are neutral	83
particles. Orbiting around the nucleus, similar to how moons orbit a planet, are	96
electrons. Electrons are very small, negatively charged particles. The rest of	107
the atom is made up of empty space.	115
A quick review: Elements are made up of many of the same kinds of atom.	130
Atoms are the smallest particles that still have the chemical properties of the	143
element. Therefore, if you had a chunk of the element silver sitting in front of	158
you, what you see is many silver atoms. The individual silver atoms are much	172
too small to see.	176
What happens when more than one element combine in a chemical reaction?	188
The result is a compound. A very familiar example of a compound is water.	202
Water is made of the elements hydrogen and oxygen. The chemical formula for	215
water is H ₂ O, which means there are two hydrogen atoms for every oxygen	228
atom. Another example of a compound is sodium chloride. Sodium chloride is	240
made of the elements sodium and chlorine. Sodium chloride is more commonly	252
known as table salt.	256



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What happens when more than one element combine in a chemical reaction? The result is a compound. A very familiar example of a compound is water. Water is made of the elements hydrogen and oxygen. The chemical formula for water is H_2O , which means there are two hydrogen atoms for every oxygen atom. Another example of a compound is sodium chloride. Sodium chloride is made of the elements sodium and chlorine. Sodium chloride is more commonly known as table salt.