RrainPOP	- Periodic	· Table

Name						

Watch the Periodic Table movie at http://www.BrainPop.com/ to complete this worksheet. 1. The Periodic Table of Elements is a list of all the chemical elements that occur in the Word List: _. It categorizes elements according to the properties of their ___ which are the smallest unit of an element. 92 118 2. Atoms are made up of a ____ composed of protons and neutrons and a atomic mass number of electrons orbiting in shells or _ atomic number atoms bond 3. It is the number of protons, neutrons, and electrons in an element's atoms that determines chemical _____. The configuration of the three particles is the only thing that makes color one element ___ ____ from another. different electrons The modern table organizes elements so it is easier to see how elements are giving up _____ to each other. The elements are listed by the groups nucleus ____, or the number of protons in the atom's nuclei. The table also lists the orbitals ___, name, and ____ periods 5. Each shell can hold only a certain number of _____ properties The number of electrons related in an atom's outer shell plays an important role in that atom's properties determining what sharing other kinds of atoms it can _____ with. Atoms bond together in molecules by either universe or ____ electrons. __ __ describe the number of electrons in the outer shell. 6. Because atoms with similar numbers of electrons in outer shells behave in similar ways, you can also read the table in vertical rows called ______. Elements in groups have similar ______ 7. The periodic table is also organized by ______ into different categories. These categories are organized by properties of the elements. 8. Some periodic tables may show elements all the way up to number ___ ____, but any element over Uranium ___ is too unstable to occur in nature and must be made in a lab. Try the quiz to help you answer these questions ... What do you get when you chemically combine chlorine gas and sodium? A. Table salt B. Car wax C. A bad monster Which of the following is a noble gas? A. Hydrogen B. Helium C. Carbon How do you find the atomic number of an atom? A. # of Protons B. # of Neutrons C. # of Electrons What are metallic elements generally known for? A. Liquid at room temp B. Conductivity C. Generosity Where would you find the element copper? A. Steak knives B. Telephone wires C. Vacuum tubes What is the smallest unit of a pure element? A. Atom B. Neutron C. Molecule What do we call an atom in which the number of protons is not equal to the number of electrons? How is the Periodic Table organized? A. Rows and aisles B. Periods and groups C. Lines and boxes When was the first modern Periodic Table developed? A. 1066 B. 1492 C. 1871 What is a molecule? A. Particles that are fragile B. Atoms that have bonded C. Synthetic car seat covers

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Who is credited with coming up with the modern Periodic Table? A. Einstein B. Bohr C. Mendeleyev How are elements listed in the Periodic Table? A. Year discovered B. Atomic Number C. Physical beauty