

BrainPOP - 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 _____. It categorizes elements according to the properties of their _____, which are the smallest unit of an element.
2. Atoms are made up of a _____ composed of protons and neutrons and a number of electrons orbiting in shells or _____.
3. It is the number of protons, neutrons, and electrons in an element's atoms that determines its _____. The configuration of the three particles is the only thing that makes one element _____ from another.
4. The modern table organizes elements so it is easier to see how elements are _____ to each other. The elements are listed by the _____, or the number of protons in the atom's nuclei. The table also lists the elements _____, name, and _____.
5. Each shell can hold only a certain number of _____. The number of electrons in an atom's outer shell plays an important role in that atom's properties determining what other kinds of atoms it can _____ with. Atoms bond together in molecules by either _____ 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 _____ properties.
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 number _____ is too unstable to occur in nature and must be made in a lab.

Word List:

92
118
atomic mass
atomic number
atoms
bond
chemical
color
different
electrons
giving up
groups
nucleus
orbitals
periods
properties
related
sharing
symbol
universe

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

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