BrainPOP - Periodic Table

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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,	Word List:
which are the smallest unit of an element.	92
2. Atoms are made up of a composed of protons and neutrons and a number of electrons orbiting in shells or	118 atomic mass atomic number atoms
3. It is the number of protons, neutrons, and electrons in an element's atoms that determines	bond
 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 	chemical color different electrons giving up groups nucleus orbitals periods properties
5. Each shell can hold only a certain number of The number of electrons	related
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.	sharing symbol universe

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.

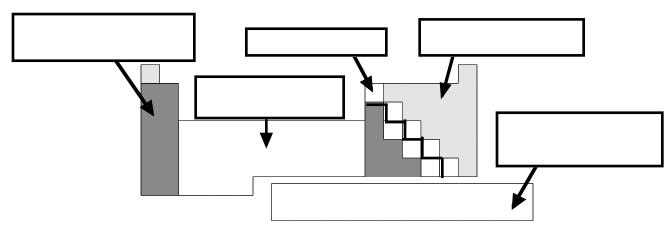
Try the quiz to help you answer these questions ...

T. Trimpe 2004 http://sciencespot.net/

Periodic Tables Online

Site: CHEMystery

Click the "Visit Site" link if needed and then find the Periodic Table of the Elements section (see the menu on the left side of the page) to help you label this diagram.



Site: Chemical Elements.com (Listed on the Periodic Table Sites page of the Kid Zone)

Use the menu on the left side of the page for links for the element groups to help you complete this section.

1. Where are metalloids found on the periodic table?

2	Which elements are metalloids?	List their symbols				
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- 3. What are two uses for metalloids?
 - 4. Where are noble gases found on the periodic table?
- 5. Which elements are classified as noble gases? List their symbols. _____ ___ ___ ____
- 6. Which elements are classified as nonmetals? List their symbols. _____ ____ ____ ____
- 7. What does the term "halogen" mean? _____
- 8. Which elements are classified as halogens? List their symbols. _____ ____
- 9. Where do you find the transition metals on the periodic table?
- 10. What is unique about the location of the valance electrons in the transition metals?

Element Games Element Flash Cards - Learn the names and symbols of the Done? Try the *Element Games*!_____ elements! Element Math Game - Calculate the number of protons, Go to the JLab Games & Puzzles site listed neutrons or electrons in an atom based on information from the Periodic Table of Elements! on the *Periodic Table Sites* page of the *Kid Zone*. Element Hangman - Discover which element the computer has picked by guessing the letters in its name! Element Crossword Puzzles - Use the clues provided to solve each crossword puzzle! Element Concentration - Challenge your memory and your knowledge of the elements! Element Matching Game - Match an element's name to its symbol!