

Name_____ Date_____ Period_____

Chemistry Scavenger Hunt

Part 1: Tutorial-Atomic Structure: Go to the following website to find the answer to these questions: http://www.teachersdomain.org/asset/lsp07_int_theatom/

- 1) The number of protons is called the _____.
- 2) Neutrons have the same mass as _____.
- 3) If an atom is neutral, it will have the _____ number of electrons as protons.

Fill in the chart for each of the subatomic particles:

Properties	Proton	Neutron	Electron
Charge			
Mass			
Location			
Importance			

Visit the Chemistry Links page at the Kid Zone to find these sites!

✓ Go to <http://sciencespot.net/> and click the Kid Zone graphic!

Part 2: Go to the "Matter and Atoms" Section under Chemistry. Click on "Science is Fun" under General Sites. Go to the "ChemTime Clock" area to find the answers.

- 1) All materials, whether solid, liquid or gas, are made of _____. Atoms are the smallest _____ of _____. Scientists have found over _____ different kinds of atoms. The many different materials we encounter are made from _____ of these atoms. A material in which all atoms are the same kind is called an _____. Therefore, there are over _____ different elements. Each element has been assigned a number, called its _____.
- 2) Search for information about each element on the Chem Time Clock. Use the chemical symbol to identify each element.

_____ Lightest atom
_____ Lightest metal
_____ Found in borax
_____ Atomic number of 7
_____ Major component of air
_____ Used in making toothpaste
_____ An element in table salt
_____ Atomic number of 12
_____ Used in "mag" wheels
_____ Atomic number of 9
_____ Used in laundry detergents

_____ First discovered in the sun
_____ Beryl, emeralds, and aquamarine
_____ Atomic number of 11
_____ Diamond and graphite
_____ 2nd most abundant element on Earth
_____ Atomic number of 3
_____ Glows red-orange with electricity
_____ Name from Greek word for sun
_____ Most common atom in universe
_____ Found in buckyballs
_____ Atomic number of 2

Part 3: Chem4Kids- Go to the "Compound Names" area under Atom Basics to find the answers to these questions.

1) How many chlorine atoms would be in a compound with the name:

a) dichloride? _____ b) tetrachloride? _____ c) decachloride? _____

2) What do you get when you add the following atoms together?

a) one carbon and one oxygen? _____

b) one carbon and two oxygen? _____

c) one carbon and four chlorine? _____

Part 4: Quia! Chem Games under the Chemistry Games and Puzzles section. Choose the "Common Chemicals" game. Play the matching game to discover the names of these common chemicals.

1) Acetic acid= _____

2) Sodium bicarbonate= _____

3) Ascorbic acid= _____

4) Sucrose= _____

5) Retinol= _____

6) Sodium chloride= _____

7) Acetylsalicylic acid= _____

8) Sodium hydroxide= _____

9) Thiamine= _____

10) Cobalamin= _____

Once you are finished you may choose any site from the Kid Zone to explore!