Name



Amazing Atoms

If you took awould you be left with? Some got, you would always have co	people wrongly believed that	
An ancient thought that sooner or later you	, named	ah ha asilad atama. Ha thayaht
that matter was made of these t	• • •	
• The atom is the	of a	all matter
• Everything – living or d	lead – solid,	or gas - is made up of
atoms.		
• They can be thought of	as "" w	hich all things are made of.
Fact file:		
Atoms are so small that they ca	n't be seen with the unaided	human . In
fact, over billion atom		
The atom gets its name from th	e Greek word for "	
There are three basic parts of an	n atom. They are as follows:	
• P		
• N		
• E		

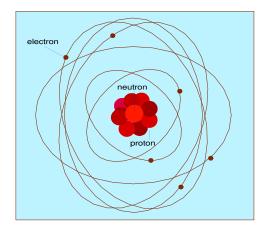
Particle	Charge	Found
Proton		
Neutron		
Electron		

Nucleus

- heavy, _____ part of the atom _____ part of the atom
- Not able to _____ easily
- Label the nucleus on the diagram below

- lightest and ______ part of the atom which circles the nucleus in ______.

 Able to move which causes ________



Elements

- Elements are substances that contain only one type of .
- elements that occur in nature (all have different physical and chemical properties)
- Classified as _____ or ____Each element has a _____ symbol
- Some well-known elements are listed on the table below.

The Periodic Table of the Elements																	
H Hydrogen 1,00794																	2 He Helium 4,003
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne
Lithium 6.941	Beryllium 9.012182											Boron 10.811	Carbon 12.0107	Nitrogen 14,00674	Oxygen 15,9994	Fluorine 18.9984032	Neon 20,1797
11	12											13	14	15	16	17	18
Na Sodium 22.989770	Mg Magnesium 24.3050											Al Aluminum 26.981538	Silicon 28.0855	P Phosphorus 30.973761	S Sulfur 32.066	Cl Chlorine 35,4527	Ar Argon 39,948
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K Potassium 39,0983	Ca Calcium 40,078	Sc Scandium 44,955910	Ti Titanium 47,867	V Vanadism 50.9415	Cr Chromium 51,9961	Mn Manganese 54,938049	Fe fron 55,845	Co Cobalt 58,933200	Ni Nickel 58,6934	Cu Copper 63.546	Zn Zinc 65,39	Gallium 69,723	Ge Germanium 72.61	As Arsenic 74,92160	Selenium 78,96	Br Bromine 79,904	Kr Krypton 83,80
37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Rubidium 85.4678	Strontium 87.62	Yttrium 88.90585	Zirconium 91.224	Niebium 92.90638	Molybdenum 95.94	Technetium (98)	Ruthenium 101.07	Rhodium 102.90550	Palladium 106.42	Silver 107.8682	Cadmium 112.411	Indium 114.818	Tin 118.710	Antimony 121.760	Tellurium 127.60	lodine 126.90447	Xenon 131.29
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs	Ba	Lanthanum	Hf Hafrium	Ta	W	Re	Os	Ir	Platinum	Au	Hg	Tl	Pb	Bi	Polenium	At	Rn
132.90545	137.327	138.9055	178.49	180.9479	183.84	186.207	190.23	192.217	195.078	196.96655	200.59	204.3833	207.2	208,98038	(209)	(210)	(222)
Fr Francium	Ra Radium	Ac Actinism	104 Rf	Db Db	106 Sg Scaborgium	107 Bh	Hs Hs	Mt Meinerium	110	111	112	113	114				
(223)	(226)	(227)	(261)	(262)	(263)	(262)	(265)	(266)	(269)	(272)	(277)						
				58	59	60	61	62	63	64	65	66	67	68	69	70	71
				Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dv	Ho	Er	Tm	Yb	Lu
				Cerium 140.116	Prascodymium 140,90765	Neodymium 144,24	Promethium (145)	Samarium 150.36	Europium 151,964	Gadelinium 157.25	Terbium 158,92534	Dysprosium 162.50	Holmium 164,93032	Erbium 167.26	Thulium 168,93421	Ynerbium 173.04	Lutetium 174,967
				90	91	92	93	94	95	96	97	98	99	100	101	102	103
				Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr
				Thorium 232.0381	Protactinium 231.03588	Uranium 238.0289	Neptunium (237)	Plutonium (244)	Americium (243)	Curium (247)	Berkelium (247)	Californium (251)	Einsteinium (252)	Fermium (257)	Mendelevium (258)	Nobelium (259)	Lawrencium (262)