					Pe	riodic	Chart	of th	e Elen	nents									
1 H																2 He			
3 Li	4 Be										5 B	6 C	7 N	8	9 F	10 Ne			
11 Na	12 Mg										13 Al	14 Si	15 P	16 5	17 Cl	18 Ar			
19 K	20 <i>C</i> a				25 Mn	26 Fe	27 Co	28 Ni	29 <i>C</i> u	30 Zn					35 Br	36 Kr			~(
									47 Ag			50 Sn			53 I	54	al	e.	
									79 Au	80 Hg	17	82 Pb	N	O	7	86 Rn	5		
					a (i	21	N	11		 			2	0				
		,	P	46	>\			1	F) ?	YG								

Atoms and Their Composition

Elements are t	he basic substar		up all					
	smallest particl		that still retain	ns the	and			
	de up of even sm and		These	particles are				
of an atom, wh the atom (utrons make-up ile electrons are). Electro ht to the atom.	: ar	nd occupy the _	that surrour	nd the nucleus o	f		
Subatomic Particle	Charge	Symbol	Mass (g)	Radius (m)				
Electron								
Proton								
Neutron								
measurement.	ic particles are s Both protons and t has a unique:	•			for t	heir		
• Name			Mass Number	Mass Number A				
• Symbo	I		Atomic					
	number (Z)		Number	Z				
• ATOMIC	: Mass (A)							

		se to a synthesis react or other	
The general equa	ation for a decomposi	tion reaction is: $C \rightarrow$	A + B
Example:			cale
		crom!	Notesa.
Typically, some tinitiate a decom	form of	Nr type of	Notesale Notesale 15 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16
A catalyst is a s	ubstance that control ing the reaction or af	s the of a r fecting the overall	reaction, without being
3. Single Displa	cement Reaction		
A almala Niamina		when one	_ in a compound is in 2 ways, a can
	by another		

Examples:

For example, explain why the two above reactions occur but the following reaction does not?

In presto determine if an element will displace another element in a single displacement reaction you must refer to an ______.

If one element is _____ another element in the compound, it can be ______.

and a single displacement reaction will occur.

Non-metals, typically _____ are involved in Single Displacement Reactions. To determine who can bump out whom, you must refer to the ______.

Predict if the following reactions will occur and what the products are:

 I_2 + NaCl \rightarrow

 F_2 + KBr \rightarrow _____

Fluorine

Chlorine Bromine

Iodine