

Atomic Structure Practice 2

*Use your brain and your handy-dandy-PT to complete.

Element	ATOMIC #	MASS #	# P ⁺	# E ⁻	# N ⁰	CHARGE
hydrogen	1	1	1	1		
hydrogen		2	1	1		
		1	1	0		
titanium		47	22			+2
nitrogen	7			10	7	
krypton			36	36	34	
		58	28			2+
	53			54	74	
gold		197		78		1+
sulfur		32			16	2-
			12	10		
arsenic					42	-3
cesium		132				1+

1. **Atoms** always have the same number of protons and _____ which makes them have a charge of _____.
2. In order to obtain a charge an atom must lose or gain _____, which makes them _____.
3. The _____ and the _____ of an element can NEVER change.