

Name: _____

Find the Patterns in Your Periodic Table

PERIODIC TABLE OF THE ELEMENTS																																																																																																																
1	2											18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118

The *periodic table* is a systematic arrangement of the *elements* according to their *atomic structure*. You now know quite a bit about the structure of atoms, particularly, the number of each particle (protons, neutrons, and electrons), the number of valence electrons, and the number of energy levels for each atom (*you know this for the first 18 elements*).

Look at the periodic table you made and your analysis of each element. How do the *Bohr electron diagrams*, *atomic numbers*, *Lewis dot structures*, etc. change as you move from left to right across the table or up and down in the same column. **Write about at least three patterns that you see. Include specific examples to illustrate the patterns you see. This should be at least two paragraphs.**