

## Periodic Table Element Project

For this project, you will be assigned an element from the Periodic Table of the Elements to research. You will need to use your book, the internet, and other sources to find the information that is required.

Periodic Table of the Elements

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
H	He											B	C	N	O	F	Ne
3	4											Al	Si	P	S	Cl	Ar
Li	Be																
11	12																
Na	Mg																
19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
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
55	56	57	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86
Cs	Ba	La	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
87	88	89	104	105	106	107	108	109	110								
Fr	Ra	Ac	Unq	Unq	Unq	Unq	Unq	Unq	Unq								
58	59	60	61	62	63	64	65	66	67	68	69	70	71				
Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu				
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				

- You will need to fill out the element box from the periodic table.
  - Z = atomic number
  - Sy = symbol
  - Atomic Mass = average atomic mass

Z

Sy

Atomic Mass

- The periodic table is broken down into “periods” (horizontal rows) and “groups” (vertical columns).
  - What period is your element from?

- What group does your element belong to?

- What is the most common isotope of your element?

4. Elements have a variety of properties. Please find and report the properties below for your element. (You may not even know what some of these properties are describing, but that's ok...we'll get to them later.)

• Melting Point (°C):

• Boiling Point (°C):

• Phase of matter at room temperature:

• Density (g/ml):

• Is the element a metal, non-metal or metalloid:

• Electronegativity:

• First Ionization Energy:

• Oxidation State(s):

• Most common/stable oxidation state:

• Electron configuration:

• Crystal Structure:

5. List five uses of your element?

6. What resources did you use? (List all websites that you used to find your information)