

ELECTRON CONFIGURATION BATTLESHIP

Directions:

1. Fold the game sheet along the dashed line. Open the cover of your textbook and insert the game sheet to hide it (like a battle ship board).
2. Add 3 boats horizontally or vertically (by coloring in the chosen squares) to your bottom game sheet:

2-square-long boat to the s-block elements

3-square-long boat to the p-block elements

4-square-long boat to the d-block elements

3. Flip a coin to see who goes first (or who has the closest birthday to today's date)
4. Player 1 chooses an element to attack by saying: the **energy level**, **shape**, and **number of electrons** (ex. $2p^5$) represented by that electron configuration. Do NOT say the element names!!!
5. Player 2 then indicates if the move was a "**HIT**" or "**MISS**" on one of their boats. If a HIT occurs, then player 2 must record a "✓" on the appropriate element square (boat).
6. Player 1 must also record the result on his/her top game sheet by using a "✓" for a HIT, or an "X" for a MISS.
7. Player 2 takes a turn (repeat steps 4-6)
8. The first player to sink all 3 boats wins!!!

BOMBS

Mark your bomb drops on your opponent here (✓ = **HIT**, X = **MISS**)

1	H														2	He																			
3	Li	4	Be									5	B	6	C	7	N	8	O	9	F	10	Ne												
11	Na	12	Mg									13	Al	14	Si	15	P	16	S	17	Cl	18	Ar												
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe
55	Cs	56	Ba	57	Lu	72	Hf	73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn
87	Fr	88	Ra	89	Lr	104	Rf	105	Db	106	Sg	107	Bh	108	Hs	109	Mt	110	Ds	111	Rg	112	Cn	113	Uut	114	Uuq	115	Uup	116	Uuh	117	Uus	118	Uuo
				57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb				
				89	Ac	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No				

BOATS

Color the squares to show the positions of your boats here (s-block = 2 squares, p-block = 3 squares, d-block = 4 squares)

1	H														2	He																					
3	Li	4	Be																																		
11	Na	12	Mg																																		
19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr		
37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe		
55	Cs	56	Ba	57	Lu	72	Hf	73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn		
87	Fr	88	Ra	89	Lr	104	Rf	105	Db	106	Sg	107	Bh	108	Hs	109	Mt	110	Ds	111	Rg	112	Cn	113	Uut	114	Uuq	115	Uup	116	Uuh	117	Uus	118	Uuo		
				57	La	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb						
				89	Ac	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No						