

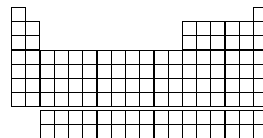
## On the Subject of the Periodic Table

*What do you do with a sick defuser? If you can't helium, and you can't curium, then you might as well barium.*

- This module shows an element's **name**, a symbol, a number and the periodic table of elements.
- Follow the steps below and press the button with the same atomic number in the periodic table that is calculated in Step 5.
- Pressing the right button will solve the module.
- Pressing the wrong button will end up in a strike.
- The Periodic Table can be found below or [here \(https://www.ptable.com\)](https://www.ptable.com).

[Element]
○

[Symbol]
[Number]



### Step 1:

- Find the atomic number of the shown Element's Name.
- Add the number of batteries to this number.
- Multiply this number with the corresponding colour in Table 1.

### Step 2:

- Find the atomic number of the shown Symbol.
- Add the number of ports to this number.
- Multiply this number with the corresponding colour in Table 1.

### Step 3:

- Find the atomic number of the shown Number :P.
- Add the number of indicators to this number.
- Multiply this number with the corresponding colour in Table 1.

### Step 4:

- Find the atomic number of the coloured button.
- *The squares with stars do not count!*
- Add the sum of the digits in the serial number to this number.
- Multiply this number with the corresponding colour in Table 1.

### Step 5:

- Add up all the final numbers from the previous steps.
- Subtract 118 from this number until the number is between 1 and 118 (1 and 118 INCLUDING).
- *When at 0 or lower: You have gone to far!*

### Table 1

Colour	Number
Red	1
Orange	2
Yellow	3
Green	4
Blue	5
White/Grey	6

# The Periodic Table of Elements

## PERIODIC TABLE OF ELEMENTS

Atomic #		Symbol		Name		Weight	
1	H	Hydrogen	1.008	2	He	Helium	4.0026
3	Li	Lithium	6.94	4	Be	Beryllium	9.0122
11	Na	Sodium	22.990	12	Mg	Magnesium	24.305
19	K	Potassium	39.098	20	Ca	Calcium	40.078
37	Rb	Rubidium	85.468	38	Sr	Strontium	87.62
55	Cs	Caesium	132.91	56	Ba	Barium	137.33
87	Fr	Francium	(223)	88	Ra	Radium	(226)

Metals		Nonmetals	
Alkali metals		Noble gases	
Alkaline earth metals		Other nonmetals	
Lanthanoids (Lanthanides)		Metalloids	
Actinoids (Actinides)		Post-transition metals	
		Transition metals	

21	Sc	Scandium	44.956	22	Ti	Titanium	47.867	23	V	Vanadium	50.942	24	Cr	Chromium	51.996	25	Mn	Manganese	54.938	26	Fe	Iron	55.845	27	Co	Cobalt	58.933	28	Ni	Nickel	58.693	29	Cu	Copper	63.546	30	Zn	Zinc	65.38	31	Ga	Gallium	69.723	32	Ge	Germanium	72.630	33	As	Arsenic	74.922	34	Se	Selenium	78.971	35	Br	Bromine	79.904	36	Kr	Krypton	83.798	37	Y	Yttrium	88.906	39	Zr	Zirconium	91.224	40	Nb	Niobium	92.906	41	Mo	Molybdenum	95.95	42	Tc	Technetium	(98)	43	Ru	Ruthenium	101.07	44	Rh	Rhodium	102.91	45	Pd	Palladium	106.42	46	Ag	Silver	107.87	47	Cd	Cadmium	112.41	48	In	Indium	114.82	49	Sn	Tin	118.71	50	Sb	Antimony	121.76	51	Te	Tellurium	127.60	52	I	Iodine	126.90	53	Xe	Xenon	131.29	54	Rn	Radon	(222)	55	Cs	Caesium	132.91	56	Ba	Barium	137.33	57-71		72	Hf	Hafnium	178.49	73	Ta	Tantalum	180.95	74	W	Tungsten	183.84	75	Re	Rhenium	186.21	76	Os	Osmium	190.23	77	Ir	Iridium	192.22	78	Pt	Platinum	195.08	79	Au	Gold	196.97	80	Hg	Mercury	200.59	81	Tl	Thallium	204.38	82	Pb	Lead	207.2	83	Bi	Bismuth	208.98	84	Po	Polonium	(209)	85	At	Astatine	(210)	86	Rn	Radon	(222)	87	Fr	Francium	(223)	88	Ra	Radium	(226)	89-103		104	Rf	Rutherfordium	(261)	105	Db	Dubnium	(268)	106	Sg	Seaborgium	(269)	107	Bh	Bohrium	(270)	108	Hs	Hassium	(277)	109	Mt	Meitnerium	(278)	110	Ds	Darmstadtium	(281)	111	Rg	Roentgenium	(282)	112	Cn	Copernicium	(285)	113	Nh	Nihonium	(286)	114	Fl	Flerovium	(289)	115	Mc	Moscovium	(290)	116	Lv	Livermorium	(293)	117	Ts	Tennessine	(294)	118	Og	Oganesson	(294)
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57	La	Lanthanum	138.91	58	Ce	Cerium	140.12	59	Pr	Praseodymium	140.91	60	Nd	Neodymium	144.24	61	Pm	Promethium	(145)	62	Sm	Samarium	150.36	63	Eu	Europium	151.96	64	Gd	Gadolinium	157.25	65	Tb	Terbium	158.93	66	Dy	Dysprosium	162.50	67	Ho	Holmium	164.93	68	Er	Erbium	167.26	69	Tm	Thulium	168.93	70	Yb	Ytterbium	173.05	71	Lu	Lutetium	174.97	72	Hf	Hafnium	178.49	73	Ta	Tantalum	180.95	74	W	Tungsten	183.84	75	Re	Rhenium	186.21	76	Os	Osmium	190.23	77	Ir	Iridium	192.22	78	Pt	Platinum	195.08	79	Au	Gold	196.97	80	Hg	Mercury	200.59	81	Tl	Thallium	204.38	82	Pb	Lead	207.2	83	Bi	Bismuth	208.98	84	Po	Polonium	(209)	85	At	Astatine	(210)	86	Rn	Radon	(222)	87	Fr	Francium	(223)	88	Ra	Radium	(226)	89	Ac	Actinium	(227)	90	Th	Thorium	232.04	91	Pa	Protactinium	231.04	92	U	Uranium	238.03	93	Np	Neptunium	(237)	94	Pu	Plutonium	(244)	95	Am	Americium	(243)	96	Cm	Curium	(247)	97	Bk	Berkelium	(247)	98	Cf	Californium	(251)	99	Es	Einsteinium	(252)	100	Fm	Fermium	(257)	101	Md	Mendelevium	(258)	102	No	Nobelium	(259)	103	Lr	Lawrencium	(266)
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For elements with no stable isotopes, the mass number of the isotope with the longest half-life is in parentheses.

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