



'Th⁹⁰e F⁹renzied W⁷⁴ord Ga³¹me O⁸f Th⁹⁰e elementS¹⁶'

The Rules and How-To-play

You can play individually or as team. Give each player a notepad and pencil and have a dictionary available or access to the internet.

Open up the periodic table board and place all 123 of the symbol and blank tiles in the tile bag provided.

You start by removing FOUR tiles from the tile bag at random and placing them face-up on the same element symbol on the Periodic Table board. (Use the Atomic Number to help you find where to place the tile)

As soon as you have placed all the tiles on the board, start the timer. All players then use their pads and pencils to form as many words as possible within 45 seconds. Words can ONLY be formed from the symbol tiles on the board.

Players must shout out the word or words formed from the symbol tiles on the board, while pointing to the elements used eg. – $\text{F}^9\text{Al}^{13}\text{Se}^{34}$

All Players must agree the word and score. Players can challenge the acceptability of a word or accuracy of a spelling by referring to a dictionary or searching the web

Record the score for each player or team at the end of each round on a separate piece of paper and keep a total to see who is in the lead

All words can be used except suffixes, prefixes, abbreviations, hyphenations, acronyms, people's names and foreign language words.

Symbols can be used more than once in the same word eg - $\text{Ba}^{56}\text{Na}^{11}\text{Na}^{11}$

Plurals are allowed.

The example booklet can NOT be used during gameplay.

Words can not be duplicated, unless the element symbol tiles used to form the word are different eg. $\text{Ag}^{47}\text{N}^7\text{Os}^{76}\text{Ti}^{22}\text{C}^6$ (scores – 158) and $\text{Ag}^{47}\text{No}^{102}\text{S}^{16}\text{Ti}^{22}\text{C}^6$ (scores – 187)

Remember each word can ONLY be formed from the symbol tiles placed on the periodic table board and NO words will be accepted or scored after the 45 seconds has elapsed.

Once a round is completed play then passes clockwise to the next person or team to pick up four tiles. Play continues until all the spaces on the board have been covered by the symbol tiles.

Blank Tiles

There are 5 blank tiles marked with the '**FReNeTiC**' logo.

If you draw a blank tile DO NOT place this on the board.

You keep the blank tiles and can use one or more in any round to act as ANY symbol on the Periodic Table board to assist in forming a word.

If a blank tile is used, the word score includes the Atomic Number of the element that the blank tile represents.

Blank tiles can only be used ONCE and are discarded from play in future rounds, unless you form a word which is one of the elements in the Periodic Table (See Scoring).

Scoring

All players or teams can score points in every round. There may be early rounds where nobody scores any points.

If a word is accepted, the score is the total of the 'Atomic Number' of the Element symbol tiles used to form the word, eg. **Ac**⁸⁹**Ce**⁵⁸**S**¹⁶**S**¹⁶ = Access = 179 points

If you create a word from the symbol tabs that is actually one of the elements in the Periodic Table eg. **Ca**²⁰**Rb**³⁷**O**⁸**N**⁷ = Carbon = 72 score, then you can claim all of the blank tiles that have been discarded from play upto that point.

Total the scores for each player or team after every round on a separate piece of paper to keep track of the scores.

You are the winner if you have the highest score once all the spaces on the board have been covered by the symbol tiles.

Contents

Fold-out customised board of The Periodic Table.

118 multi-coloured Element symbol and Atomic Number tiles.

5 blank FReNeTiC logo tiles

How-to-play booklet

45 second sand timer

1 tile bag

4 pads

Example booklet

Playtime 45-60min

Periodic Table of the Elements

The periodic table displays all known elements, organized by their properties. Each element's box includes its atomic number (top left), symbol (center top), full name (center), and atomic weight (bottom). The table is color-coded by groups: Alkali Metals (red), Alkaline Earths (orange), Transition Metals (yellow/green), Basic Metals (green), Semimetals (light green), Nonmetals (blue/purple), Halogens (dark blue), Noble Gases (pink), Lanthanides (purple), and Actinides (dark purple).

Periodic Table of the Elements																					
1 H Hydrogen 1.008																	2 He Helium 4.003				
3 Li Lithium 6.941	4 Be Beryllium 9.012															5 B Boron 10.811	6 C Carbon 12.011	7 N Nitrogen 14.007	8 O Oxygen 15.999	9 F Fluorine 18.998	10 Ne Neon 20.180
11 Na Sodium 22.990	12 Mg Magnesium 24.305															13 Al Aluminum 26.982	14 Si Silicon 28.086	15 P Phosphorus 30.973	16 S Sulfur 32.065	17 Cl Chlorine 35.453	18 Ar Argon 39.948
19 K Potassium 39.098	20 Ca Calcium 40.078	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 72.631	33 As Arsenic 74.922	34 Se Selenium 78.972	35 Br Bromine 79.904	36 Kr Krypton 83.798				
37 Rb Rubidium 85.468	38 Sr Strontium 87.62	39 Y Yttrium 88.906	40 Zr Zirconium 91.224	41 Nb Niobium 92.906	42 Mo Molybdenum 95.95	43 Tc Technetium 98.907	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.906	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.411	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.6	53 I Iodine 126.904	54 Xe Xenon 131.294				
55 Cs Cesium 132.905	56 Ba Barium 137.328	57-71 Lanthanide Series	72 Hf Hafnium 178.49	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.227	78 Pt Platinum 195.085	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.383	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine 209.987	86 Rn Radon 222.018				
87 Fr Francium 223.018	88 Ra Radium 226.025	89-103 Actinide Series	104 Rf Rutherfordium [261]	105 Db Dubnium [262]	106 Sg Seaborgium [266]	107 Bh Bohrium [264]	108 Hs Hassium [269]	109 Mt Meitnerium [268]	110 Ds Darmstadtium [269]	111 Rg Roentgenium [272]	112 Cn Copernicium [277]	113 Nh Nihonium unknown	114 Fl Flerovium [289]	115 Mc Moscovium unknown	116 Lv Livermorium [293]	117 Ts Tennessine unknown	118 Og Oganesson [294]				
57 La Lanthanum 138.905	58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.242	61 Pm Promethium 144.913	62 Sm Samarium 150.36	63 Eu Europium 151.964	64 Gd Gadolinium 157.25	65 Tb Terbium 158.925	66 Dy Dysprosium 162.500	67 Ho Holmium 164.930	68 Er Erbium 167.259	69 Tm Thulium 168.934	70 Yb Ytterbium 173.055	71 Lu Lutetium 174.967							
89 Ac Actinium 227.028	90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium 237.048	94 Pu Plutonium 244.064	95 Am Americium 243.061	96 Cm Curium 247.070	97 Bk Berkelium 247.070	98 Cf Californium 251.080	99 Es Einsteinium [254]	100 Fm Fermium 257.095	101 Md Mendelevium 258.1	102 No Nobelium 259.101	103 Lr Lawrencium [262]							
Alkali Metal		Alkaline Earth		Transition Metal		Basic Metal		Semimetal		Nonmetal		Halogen		Noble Gas		Lanthanide	Actinide				