

## Periodic Elements - little things mean a lot

by William Avery ©2011, Yummy English Snack Productions, Recorded at Bach to Rock South Riding VA  
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Recline, unwind, feel the funky rhyme  
Let the elements settle deep inside your mind  
Recline, unwind, feel the funky rhyme  
Let the elements settle...  
Little things mean, little things mean  
Little things mean a lot (periodic elements)  
Little things mean, little things mean  
Little things mean a lot

1. **Hydrogen** - sending rocket ships to the moon
2. **Helium** - blowing up party balloons
3. **Lithium** - it can alter your mood
4. **Beryllium** - important for X-ray tubes
5. **Boron** - essential for plant life
6. **Carbon** - make a diamond ring. Will you be my wife?
7. **Nitrogen** - when liquefied is super freezing
8. **Oxygen** - is needed (*inhale*) to keep you breathing
9. **Fluorine** - in toothpaste; you smile so pretty
10. **Neon** - lights brighten up the city
11. **Sodium** - salty making metal rust
12. **Magnesium** - 2% of the Earth's crust
13. **Aluminum** - foil wrapping up leftovers
14. **Silicon** - chips in computers get bolder
15. **Phosphorus** - celebrate making fireworks
16. **Sulfur** - as a nutrient helps your body work
17. **Chlorine** - cannonball splashing in the pool
18. **Argon** - fighting cancer and preserving paint, too
19. **Potassium** - almost always in fertilizer
20. **Calcium** - in dairy you grow taller and wiser
21. **Scandium** - light strong sports equipment
22. **Titanium** - strong and corrosion resistant
23. **Vanadium** - good for fixing dies to fabrics
24. **Chromium** - is remarkably magnetic
25. **Manganese** - in spinach, rice and beans
26. **Iron** - for the hemoglobin in your blood stream
27. **Cobalt** - producing alloys and colored glass
28. **Nickel** - making nickels - Make every penny last with...
29. **Copper** - in the wire, in the pipes, in the cars
30. **Zinc** - for a rash you can rub it on your arm
31. **Gallium** - on glass makes a mirror; one answer
32. **Germanium** - is a big immune enhancer
33. **Arsenic** - is poisonous; sealing your doom
34. **Selenium** - From Greek: 'Selene' meaning moon
35. **Bromine** - is a thick reddish-brown gas
36. **Krypton** - is classified as a "Nobel Gas"
37. **Rubidium** - in coffee, tea, fruits and veggies  
Never thought that elements could be so heavy  
Yeah... that's what I said.  
So many elements are floating in my head

38. **Strontium** - "Alkaline Earth Metal" used in flares
39. **Yttrium** - bad for your lungs if inhaled in the air
40. **Zirconium** - "Transition metal" good for making jewelry
41. **Niobium** - is ductile if you get it purely
42. **Molybdenum** - makes metal hard, nicknamed "Molly"
43. **Technetium** - rust preventative makes the tin man feel jolly
44. **Ruthenium** - discovered in Russia in the mines
45. **Rhodium** - making jewelry sparkle and shine
46. **Palladium** - in automobile catalytic converters
47. **Silver** - spoon in your mouth, have pudding for dessert
48. **Cadmium** - battery up toys for the kids to play
49. **Indium** - in flat panel LCD displays
50. **Tin** - making whistles and coating steel cans
51. **Antimony** - may be toxic, better wash it off your hands
52. **Tellurium** - potent for producing body odor
53. **Iodine** - antiseptic, throw salt over your shoulder
54. **Xenon** - effective as a general anesthetic
55. **Cesium** - used in cells that's photoelectric
56. **Barium** - for enemas or to poison rats
57. **Lanthanum** - studio lights in Hollywood, what about that
58. **Cerium** - making sparks in lighter flints
59. **Praseodymium** - helping glassblowers not to squint
60. **Neodymium** - forming a permanent magnet
61. **Promethium** - is highly radioactive

No hydrogen, the sun is gone  
No oxygen, you won't be breathing for long  
No carbon, you got no diamond rings  
Elements are relevant to everything  
So small, we cannot see.  
But without one we might not be.  
That's why I say with all I got...  
Little things mean a lot

62. **Samarium** - dating samples from the moon
63. **Europium** - in televisions makes red and blue
64. **Gadolinium** - take a dose for the MRI machine
65. **Terbium** - in televisions makes yellow and green
66. **Dysprosium** - modulate and control nuclear reactors
67. **Holmium** - has the highest magnetic X-factor
68. **Erbium** - powerful pink, stops nuclear fission
69. **Thulium** - hard to separate like that impossible mission
70. **Ytterbium** - discovered in the Sweden town Ytterby
71. **Lutetium** - dating meteorites. Don't think you heard me
72. **Hafnium** - transistors replacing silicon
73. **Tantalum** - capacitors in mobile cell phones
74. **Tungsten** - used in those old light bulb filaments  
Now we got about two thirds of the elements  
Yeah... That's what I said  
So many elements are floating in my head

75. **Rhenium** - high-octane gasoline that's lead-free
76. **Osmium** - found in fountain pens and jewelry
77. **Iridium** - chemical catalyst very intensive
78. **Platinum** - making jewelry, fighting cancer, expensive
79. **Gold** - coins, gold treasure, gold such a pleasure
80. **Mercury** - in thermometers, the heat we can measure
81. **Thallium** - poisonous, fatal and toxic
82. **Lead** - in pencils and radiation blocking
83. **Bismuth** - a metal so heavy and precious
84. **Polonium** - a trigger for nuclear weapons
85. **Astatine** - highly radioactive halogen
86. **Radon** - bad for your lung B.K.A. carcinogen
87. **Francium** - Obviously named after France
88. **Radium** - luminescent paints, put you in a trance
89. **Actinium** - glowing blue radiation
90. **Thorium** - in nuclear power generating
91. **Protactinium** - the "parent of actinium"
92. **Uranium** - natural nuclear fuel of the millennium
93. **Neptunium** - the first synthetic, man-made element
94. **Plutonium** - power to the moon Apollo 11
95. **Americium** - in house hold smoke detectors
96. **Curium** - named for Marie Curie with much respect
97. **Berkelium** - first synthesized in 1949
98. **Californium** - metal detector and keeping planes flying
99. **Einsteinium** - named after Albert Einstein
100. **Fermium** - radioactive but nothing else comes to mind
101. **Mendelevium** - Dmitri Mendeleev founded the periodic table
102. **Nobelium** - for the prize of the one who's most able
103. **Lawrencium** - a half-life of about 3 minutes
104. **Rutherfordium** - research group Nobel Prize most winning
105. **Dubnium** - synthesized in Dubna in Russia
106. **Seaborgium** - made at the University of California
107. **Bohrium** - named in honor of Niels Bohr
108. **Hassium** - discovered in Germany in 1984
109. **Meitnerium** - located in groups 3 - 12
110. **Darmstadtium** - also in groups 3 - 12 as well
111. **Roentgenium** - is man-made and is still kind of cryptic  
It's hard to analyze what is gone before you witness  
Yeah... That's what I said  
So many elements are floating in my head

A few more elements remaining on the list.  
Synthesized and hard to study so I'll end it like this...

- |                         |                         |
|-------------------------|-------------------------|
| 112. <b>Copernicium</b> | 116. <b>Ununhexium</b>  |
| 113. <b>Ununtrium</b>   | 117. <b>Ununseptium</b> |
| 114. <b>Ununquadium</b> | 118. <b>Ununoctium</b>  |
| 115. <b>Ununpentium</b> |                         |

Whoowee That's a lot... to digest at one time



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## Singing Periodic Element Symbols

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H He

Li Be B C N O F Ne

Na, Mg Al Si P S Cl Ar

K Ca, Sc Ti V, Cr Mn Fe Co Ni Cu Zn, Ga Ge As Se Br Kr

Rb Sr Y Zr, Nb Mo Tc, Ru Rh Pd Ag, Cd In, Sn Sb Te I Xe

Cs Ba

La Ce Pr Nd, Pm Sm Eu Gd, Tb Dy Ho, Er Tm Yb Lu \*\* (Lanthanides)

Hf Ta W Re Os Ir, Pt Au Hg Tl, Pb Bi Po At Rn

Fr Ra

Ac Th, Pa U Np, Pu Am Cm Bk, Cf Es Fm, Md No Lr \*\* (Actinides)

Rf Db, Sg Bh, Hs Mt, Ds Rg, Cn, Uut Uuq Uup Uuh Uus Uuo

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	*	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	**	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

*	Lanthanoids	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	71 Lu
**	Actinoids	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	103 Lr

		*															
		**															

*	Lanthanoids															
**	Actinoids															

**Game:**

A fun game for students would be to make sentences with the elements similar to the following:

90	85	53	16	28	58
Th	At	I	S	Ni	Ce

We also encourage creative spelling and pronunciation.

EX: "Does he like her?" can be spelled out as follows: Ds He Li K H Er?

EX: "I like chocolate." can be spelled out as follows: I Li K C Ho Co La Te.

EX: That is corny." can be spelled out as follows: Th At I S Co Rn Y.

EX: "Can I see you in the back?" can be spelled out: Cn I Se Eu In Th Bk?

**Jokes:**

Q: Why do chemists call helium, curium and barium the medical elements?

A: Because if you can't helium or curium, you barium!

Q: What is Santa Clause's favorite element?

A: Ho Ho Holmium!

Q: What weapon can you make from the elements potassium, nickel and iron?

A: A KNiFe.

Q: Why do chemists like nitrates so much?

A: They're cheaper than day rates.

If an experiment works, something has gone wrong.

When you don't know what you're doing, do it neatly.

Teamwork is essential; it allows you to blame someone else.

When the crowds **argon**, I **zinc** the show is over.

**Activity:**

Insert image or draw picture of some little things that are important to you. Ex: images of family/friends having fun, playing with puppy/kitten, holding baby, toy collection...Or draw the molecular structure & creatively illustrate your favorite elements. Either way, have fun & enjoy!

Of all the elements in my life, these little things mean a lot.

*Have fun learning the periodic elements.*