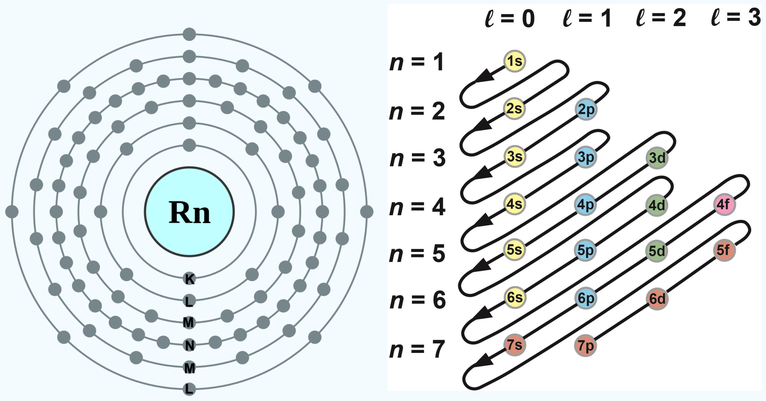
Solomon's Molten Sea: A Three-Dimensional Periodic Table of the Elements?

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West Michigan Creation Fellowship, March 17, 2026, *Forest Hills Bible Chapel*, *Ada, Michigan*

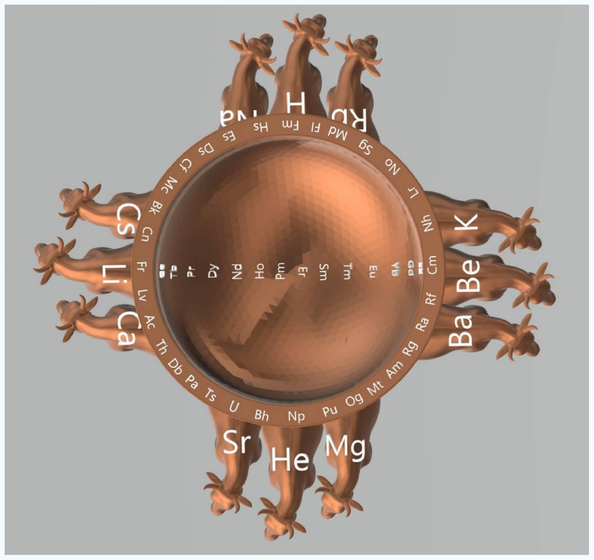
Abstract

The account of Solomon's Molten Sea (MS) in 1 Kings 7:23-26 and 2 Chronicles 4:2-5 describe a circular metal vessel measuring ten cubits wide by five cubits tall situated on the hind quarters of 12 metal oxen. Underneath the brim were two rows of knops cast, forming two rings of thirty cubits circumference each. A further investigation of the Molten Sea's features and dimensions found that this ancient object possesses a shocking similarity to the Periodic Table of the Elements (PTOE). I discovered that each of the Sea's five main elements, i.e., the twelve oxen, the two 30-cubit rows of knops, the 14-cubit lower bowl circumference beneath the knops, and the 31.4-cubit circumference brim may be a three-dimensional representation of the shell model of electronic orbitals, as well as the Periodic Table of the Elements. This poster illustrates how the 2, 8, 18, 32 electron shells and s, p, d, f sub-orbitals are plainly developed from the oxen, upper ring, lower ring and bowl portion respectively. Other features of the model, such as periods, groups, *n, ℓ, m, s* quantum numbers, Aufbau Principle, and Hund's Rule are discussed.



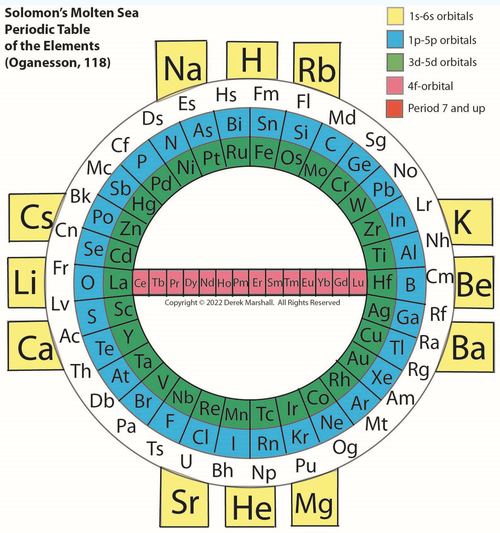
Electronic Shell Model and Aufbau Principle

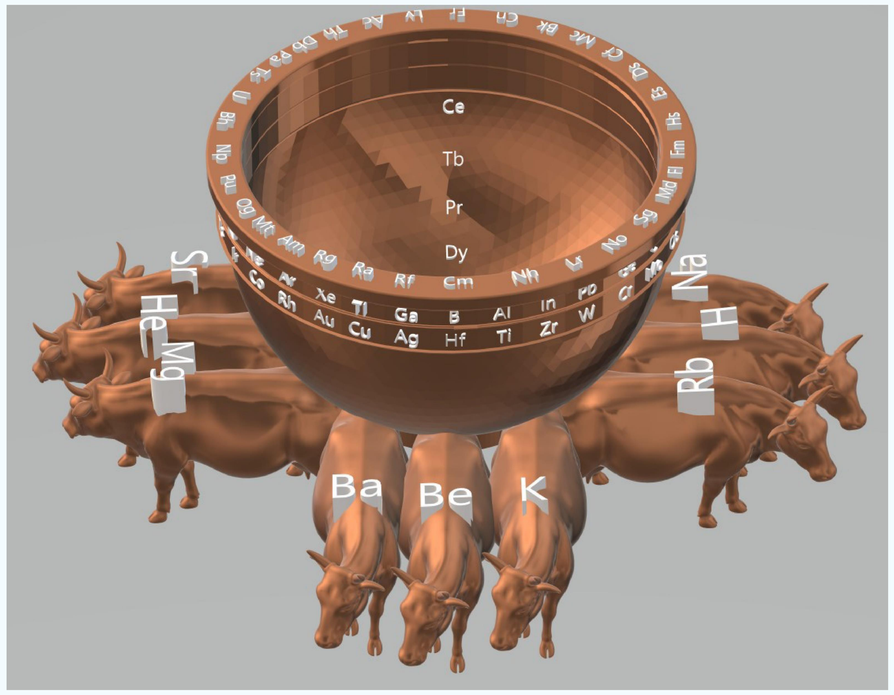
The Shell Model of Electronic Orbitals provides a means of expressing the order in which electrons form energy levels within an atom. Based in principle quantum number *n*, the number of electrons present in a particular shell man be calculated using the formula $2n^2$, where *n*-values from 1 to 4 represent the K, L, M, N shells, respectively. The shell diagram for Radon above illustrates the positions of K, L, M, N-shells with their 2, 8, 18, 32 electrons, respectively. The arrow diagram above right show the filling order of the sub-shells, or orbitals *s, p, d, f,* based upon their energy levels. The Aufbau Principle states that the electronic orbitals of an atom fill (or "build up") according to their respective energy levels, with lowest energy orbitals being filled first. As will be discussed, the MS could be a three-dimensional representation of these principles.



f-orbital, 14 cu.

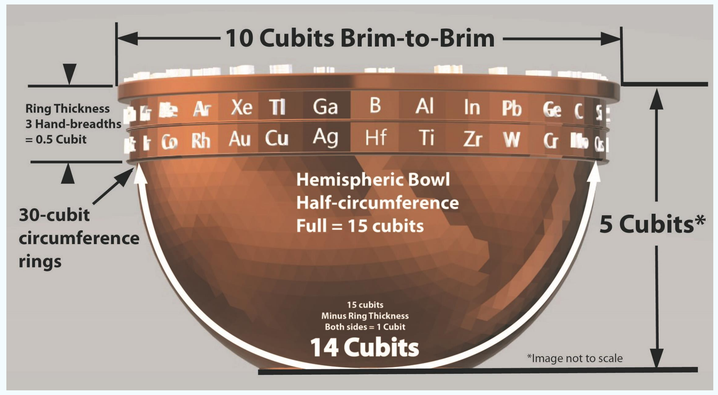
The 14-cubit circumference lower bowl may represent the occupancies of the f-orbitals through the 6th period of the PTOE. Similar to the rings, this band can exhibit the angular momentum, magnetic, and spin qualities given by the ℓ, m, and s quantum numbers. The bowl structure provides a natural f-orbital "bridge" between Lanthanum (La) and Hafnium (Hf) that is not featured on conventional tables. The f-orbital half-ring forms the lower bowl structure, and could represent more degrees of freedom to fill electronic occupancies in quantum angular momentum space.





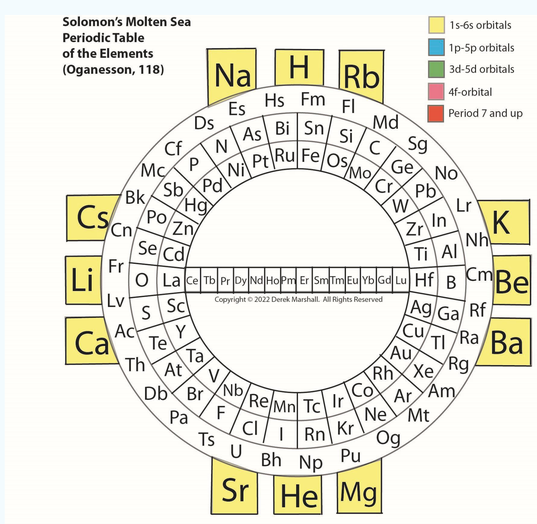
Observations

The Molten Sea has five main features, four of which are described in the text. First are the 12 oxen, which form the base of the structure. Second and third are the two 30-cubit ring structures that encircle the vessel. The fourth feature is the 10-cubit diameter lip. We compared the Sea to a Radon atom, with its 12 *s*-orbital electrons, 30 *p*-orbital electrons and 30 *d*-orbital electrons. To account for Radon's 14 *f*-orbital electrons, we consider the fifth feature of the MS; the bowl situated below the rings. Using the hand-breadth (hb.) thickness given from text, and assuming a ½ hb. bend radius and ½ hb. rings and space between rings it was determined that the lip and the rings occupy 3 hb. on each side. Assuming 6 hb./cubit, the lip and rings fill up one cubit of the Sea's 15-cubit hemispherical shape, leaving 14-cubits below. Measuring 14 cubits, the bowl could represent the 14 *f*-orbital electrons. Now taking the lip into consideration, we compare the MS to an Oganesson atom, the last element of the PTOE, by adding the 7th period of the table. With a stated diameter of 10 cubits, the lip measures 31.4 cubits in circumference. This is where the complete 32-element 7th period of the PTOE could reside, if relativistic effects are taken into consideration. As the lip was hand-tooled with lilies, we note that last twenty-six elements of the 7th period of the PTOE are also synthetic, and man-made. The first six elements of the 7th Period are naturally occurring.



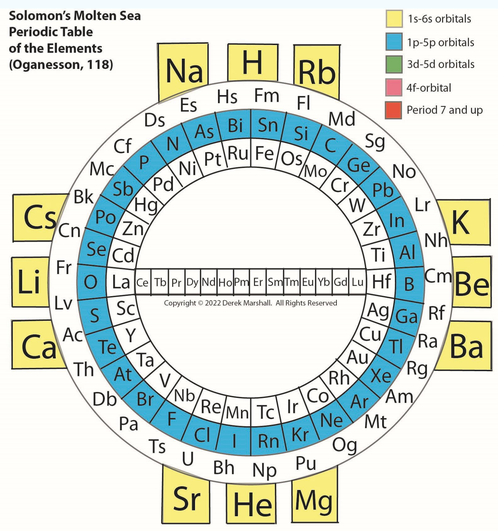
s-orbitals, 12 oxen

The 12 oxen form the base on which the bowl structure rests. They are arranged in threes, but may also be viewed as paired opposites. In this way we may build up the structure, first with two opposing oxen, e.g. Hydrogen (H) and Helium (He). This corresponds to the s-orbital behavior feature two occupancies available for electrons with "up" and "down" spin quantum numbers. Also, since the cattle are on a flat plane, they would exhibit no angular velocity, corresponding to an ℓ quantum value of zero.



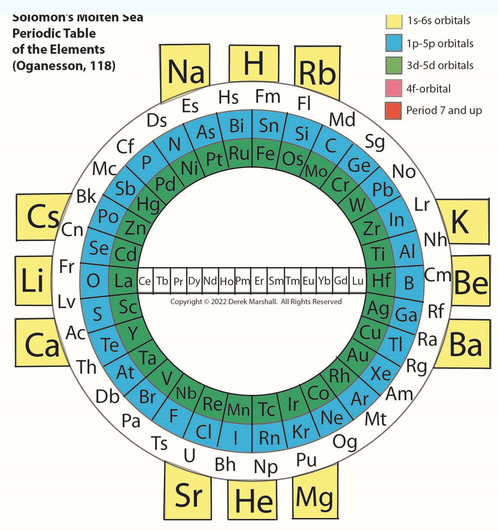
p-orbitals, 30 cu.

The 30-cubit circumference upper ring could represent the occupancies of the p-orbitals through the 6th period of the PTOE. As part of the circular bowl structure, this ring can exhibit the angular momentum, magnetic, and spin qualities given by the ℓ, m, and s quantum numbers. We follow Hund's Rule by having one side filling before the other side, as the oxen did. Elements form the PTOE groups by being next to each other on the ring, thus retaining similar chemical properties.



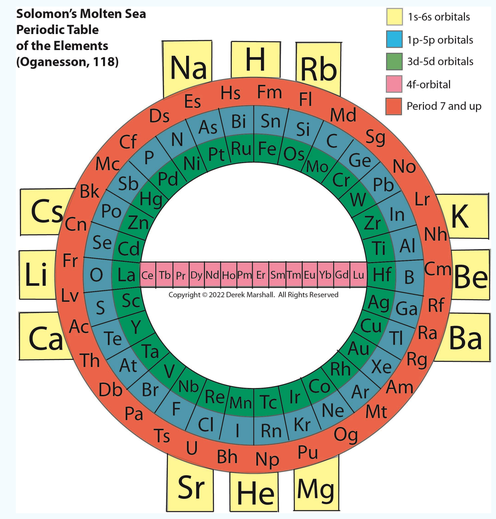
d-orbitals, 30 cu.

The 30-cubit circumference lower ring may represent the occupancies of the d-orbitals through the 6th period of the PTOE. Similar to the upper ring, this band can exhibit the angular momentum, magnetic, and spin qualities given by the ℓ, m, and s quantum numbers. We keep Lanthanum (La) and Hafnium (Hf) opposite each other and fill the other elements in accordingly. Elements form the groups by being next to each other on the ring, thus retaining similar chemical properties.



Period 7, 31.4 cu

The brim of the Sea was wider than the bowl itself, spilling over with hand-tooled lilies. Only six of the radioactive elements {Fr, Ra, Ac, Th, Pa, U} of Period 7 are naturally occurring; the other 26 are synthetic, man-made. The orbitals of superheavy elements such as Og, due to relativistic effects, may be subject to length contraction. Because of this, Og is predicted to be a solid, not a gas. This may allow the 32 elements of Period 7 to "exist" in the 31.4 cubit "space" given by the model.



Periodic Table of the Elements (PTOE)

After IUPAC Commission on Isotopic Abundances and Atomic Weights, 2019

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1 H Hydrogen 1.008																	2 He Helium 4.003
3 Li Lithium 6.94	4 Be Beryllium 9.012											5 B Boron 10.81	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 28.085	15 P Phosphorus 30.974	16 S Sulfur 32.06	17 Cl Chlorine 35.45	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 72.630	33 As Arsenic 74.922	34 Se Selenium 78.971	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 [97]	44 Ru Ruthenium 101.07	45 Rh Ruthenium 102.905	46 Pd Palladium 106.42	47 Ag Silver 107.868	48 Cd Cadmium 112.414	49 In Indium 114.818	50 Sn Tin 118.710	51 Sb Antimony 121.760	52 Te Tellurium 127.60	53 I Iodine 126.904	54 Xe Xenon 131.293
55 Cs Cesium 132.905	56 Ba Barium 137.327	57 La Lanthanum 138.905	72 Hf Hafnium 178.486	73 Ta Tantalum 180.948	74 W Tungsten 183.84	75 Re Rhenium 186.207	76 Os Osmium 190.23	77 Ir Iridium 192.217	78 Pt Platinum 195.084	79 Au Gold 196.967	80 Hg Mercury 200.592	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.980	84 Po Polonium [209]	85 At Astatine [210]	86 Ra Radon [222]
87 Fr Francium [223]	88 Ra Radium [226]	89 Ac Actinium [227]	104 Rf Rutherfordium [267]	105 Db Dubnium [270]	106 Sg Seaborgium [269]	107 Bh Bohrium [270]	108 Hs Hassium [270]	109 Mt Meitnerium [278]	110 Ds Darmstadtium [281]	111 Rg Roentgenium [281]	112 Cn Copernicium [285]	113 Nh Nihonium [286]	114 Fl Flerovium [289]	115 Mc Moscovium [289]	116 Lv Livermorium [293]	117 Ts Tennessine [293]	118 Og Oganesson [294]

58 Ce Cerium 140.116	59 Pr Praseodymium 140.908	60 Nd Neodymium 144.242	61 Pm Promethium [145]	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 173.045	71 Lu Lutetium 174.966
90 Th Thorium 232.038	91 Pa Protactinium 231.036	92 U Uranium 238.029	93 Np Neptunium [237]	94 Pu Plutonium [244]	95 Am Americium [243]	96 Cm Curium [247]	97 Bk Berkelium [257]	98 Cf Californium [251]	99 Es Einsteinium [252]	100 Fm Fermium [257]	101 Md Mendelevium [258]	102 No Nobelium [259]	103 Lr Lawrencium [262]

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