ELEMENTARY COMBINATIONS

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In school and college, we learnt that chemical elements combine with each other to form new substances, compounds, in very well-defined ways, obeying certain scientific rules. For example, we learned that two atoms of hydrogen and one atom of oxygen combine to form a molecule of water, and that one atom of sulfur combines with four atoms of oxygen to form a sulphate radical with electrical charge -2. In chemistry these rules of combination were explained in terms of valence and bonds, and in physics the rules were explained in terms of rings of electrons and the numbers of electrons in the outermost shells of the elements.

In the world of logology, chemical elements are able to combine in other ways. For example, take ARGON and TIN. In the real world, these can't combine, since argon is an inert element, but in our logological world these two elements combine to form the English word IGNORANT.

How many other pairs of element names can combine in this way, forming valid English words, names and phrases? We have managed to unearth 25 examples—have we missed any?

aluminum + gold argon + caesium argon + tin arsenic + lead arsenic + neon arsenic + tin astatine + tin boron + lead calcium + iron

actinium + lead

cesium + tin germanium + tin gold + iron

carbon + lead

gold + tin indium + lead iron + lead

lead + radium lead + silver lead + tin

lead + uranium neon + silver radon + tin silver + tin adminiculate W2 aluminum gold W2 graminaceous W3

ignorant W3

calendarise Chambers

nonincrease W2 carnitines W2 instantiate W3 bandolero W2

Acroclinium W3, Alcicornium W3 Carbondale Random House Dict

un-Semitic W2 mint geranium W3 drooling W3 dolting W2

dolting W2 adlumidine W3

Irondale Random House Dict

radium lead W2

Silverdale Times Index-Gazetteer landtie New Oxford Dict of English

uranium lead W3 nonservile W2 ordinant W3

silver tin Random House Dict

However, four of these are trivial transpositions, involving no letter rearrangements.

How about three-way combinations? So far we have only been able to discover three examples:

copper + neon + tin nonperception W2 iron + lead + tin internodial W2 lead + neon + tin nonentailed W2

How about near-misses involving two different element names plus one additional letter? For example, NEON and TIN plus an extraneous C make INNOCENT. These near-misses are somewhat analogous to chemical radicals with their associated electrical charges, caused by a shortage or surfeit of electrons.

anticlinorium W3 actinium + iron inclinatorium W2 actinium + iron microminiature W3 americium + iron antimony + argon antimony orange W2, organoantimony W2 add argon + arsenic organoarsenic W2 add station-manager Chambers argon + astatine argon + bismuth organobismuth W2 add organoboron W2 add argon + boron neurogrammicW3 argon + cerium organochlorine W3 argon + chlorine organogold W2 add argon + gold organoiron W2 add argon + iron argon + lead organolead W2 add argon + lithium organlithium W2 add organomagnesium W2 add argon + magnesium organomercury W2 add argon + mercury argon + nickel law-reckoning W2 organophosphorus W2 add argon + phosphorus organosilicon W2 add argon + silicon argon + silver organosilver W2 add, revalorizing W3 (has -ize ending) argon + sodium monadigorous W2, organosodium W2 add

argon + tin
antinegro W2, organotin W2 add
organozinc W2 add
organozinc W3
aluminothermics W3
astatine + cerium
bromine + lead
caesium + tin
antinegro W2, organotin W2 add
organozinc W2 add
aluminothermics W3
quasi remittance W2
modernizable W2
insectarium W3

cerium + lead

chlorine + tin

cobalt + iron

cobalt + tin

copper + tin

gold + lead

gold + neon

gold + radon

indium + tin

hydrogen + lead

gallium + iron

cerium + tin

calcium + neon uncompliance W2, uneconomical W3

unreclaimed W3
centumviri W3
antichlorine W2
beta-orcinol W2
bolt action W3
perception W3
anguilliform W3
dodge ball W3
long-nosed W3
loading-rod OED
wrongheadedly W3

diminuting W2, diminution W3

definition W3 iodine + tin nicotinized W3 iodine + zinc non-joiner OED iron + neon unicornlike W2 iron + nickel reconnoitring W3 iron + nitrogen triunion W2 iron + tin zirconian W2 iron + zinc nondealer W2 lead + neon

lead + neon nondealer W2
lead + niobium unmodifiable W3
lead + radon handloader W3

lead + sodium duodecimals W3, modularized W3 (has -ize ending)

AND STATE OF BUILDING

lead + strontium ultramodernist W3

lead + terbium resublimated Random House Dict

lead + thorium
neon + radium
neon + radon
rheumatoidal W2
endocranium W3
ordonnanceW3

neon + tin innocent
neon + titanium intermountain W3
niobium + tin incumbition W2
nitrogen + tin nonintegrity W2
oxygen + tin antioxygen W3
platinum + tin multipinnate W2
potassium + tin assumptionist W3
radium + tin miniatured W3

radium + tin assumptionist w.s
radium + tin miniatured W3
radon + silver dorsiventral W3
rhodium + tin Dinotherium W3

selenium + tin multiengines Random House Dict, untimeliness W3
silicon + lead delocalising Random House Dict, colonialised RHD

silicon + tin inflictions W3

What about near-misses involving three different element names and an additional letter? In addition to IRON + LEAD + TIN yielding INORDINATELY and NONEDITORIAL, there is:

argon + iron + tin nonirrigation W2 argon + lead + tin degranulation W3 arsenic + gold + tin reconsolidating W3 caesium + lead + tin eudaemonistical W2 cesium + lead+ tin eudemonistical OED erbium + lead + tin denumerability OED lead + lutecium + tin multidenticulate W2 lead + lutetium +tin multidenticulate W2 lead + radon + tin intraduodenal W2 neon + silver + tin nonserviential W2

Finally, what about words using the names of four or more different elements? The best we have been able to unearth is LEAD + NEON + TIN + ZINC which with three extraneous letters yields UNCONVENTIONALIZED. Can readers supply additional examples that use dictionary words?