

⑤ Isotope - SAME ELEMENT.

mass = $p+n$ ← Alter # n

$\begin{matrix} A \# \\ Z \# \end{matrix}$

6

$\begin{matrix} 12 \\ 6 \end{matrix} C, \begin{matrix} 13 \\ 6 \end{matrix} C, \begin{matrix} 14 \\ 6 \end{matrix} C$

Oct 27-8:36 AM

$\sum 1s^2 2s^2 2p^6 3s^2 3p^4$

$S^{-2} 1s^2 2s^2 2p^6 3s^2 3p^6$

Oct 27-9:00 AM

The Old Periodic Table

Sartthemy → Cards → Numeric value
 → Suit.
 → color (Red/Black)

Dobereiner - Law of Triads
 Similar chem Prop.
 Valence e-

| | | |
|---------------|--|-----------------|
| Calcium 40 | | Strontium 88 |
|---------------|--|-----------------|

Oct 27-9:11 AM

Newlands - Law of octaves

| | | | | | | | | |
|---------|----|----|--------------|--------------|---|---|----|----|
| Light → | Li | Be | B | C | N | O | F | Ne |
| | Na | Mg | Al | Si | P | S | Cl | Ar |
| | K | Ca | ? | ? | ? | ? | ? | ? |

(8)
He

Fore fit the elements where they did not belong

Oct 27-9:31 AM

Dmitri Mendeleev

(8) NOT going to force fit!

expanded table out. → order ~~Atomic Mass~~

element
|
lightest

element
(lightest)
heaviest mass.

Oct 27-9:39 AM

Henry Mosely - X-ray diffraction
(neutron)

↳ Mendeleev's shape (framework) ✓

→ ~~Atomic Mass~~

↑ Atomic #

Oct 27-9:55 AM