



Group I - Oxoammonium salts

As we descend a group the number of valence electrons increases \rightarrow atoms get bigger.

Oxidative cleavages of alkanes from positive oxidation numbers to form the neutral intermediates. As larger molecules have more electrons they gain electrons less easily. This is because other electrons are further shell (increases as you go down the group) so to prevent overlap some electrons leave. These electrons form positive charges in the nucleus. We find them in the outer shell. The inner energy levels "screen" or "shield" outer electrons from positive charges in the nucleus.

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Reactivity

- Some groups have similar properties as they have same number of electrons as shown by their patterns of physical and chemical properties.
- Similar elements in order of atomic (proton) number - puts them in right place in table

MODERN PERIODIC TABLE

• The left steps for undistorted elements and predicted their properties

unstable

• Periodic pattern in their physical and chemical properties was

elements.

However he developed up to date and didn't have gaps for undistorted elements.

Periodic for every ~~every~~ eighth element.

The Newlands: laws for octaves - elements in order of atomic weight had similar

the periodic table

unstable