Mnemonics for Chemistry

The first 20 elements:

> **H**arry, **He** **Li**kes **Be**tty **B**ut **C**an **N**ot **O**btain **F**requent **Ne**cking.
> **Na**ughty **M**a**g**gie **Al**ways **SiPS** **ClAr**et and **K**isses **Ca**lmly.

Elements 21 – 30 (first row of transition metals):

> **Sc**rub **Ti**l **V**ery **Cr**ean... **M**a**n**y **Fe**males **Co**ntain **Ni**ce **Cu**rvy **Z**o**n**es.

Elements 31 – 36:

> **Ga**lloping **Ge**rmane **As**cends the **Se**edy **Br**othel **Kr**azily.

Electrochemistry:

> OiL RiG (**O**xidation **i**s **L**oss of electrons; **R**eduction **i**s **G**ain of electrons)
> **RC** c**O**l**A** (**R**eduction at the **C**athode, **O**xidation at the **A**node)

Diatomic Elements:

> BrINClHOF (say "Brinkelhof")
> **H**elp **O**ur **N**eedy **Cl**ass **F**ind **Br**ains **I**mmediately

First 10 simple hydrocarbons:

> **M**other **E**ats **P**hone **B**ooks and **P**ink **H**ats -- **H**as **O**xygen/**N**itrogen **D**iscomfort
>
> Methane, Ethane, Propane, Butane, Pentane, Hexane, Heptane, Octane, Nonane, Decane

Gibbs Free Energy equation:

> **G**iving **H**omework **T**onight **S**ucks ($\Delta G = \Delta H - T\Delta S$)

Polyatomic Anions:

> NASCP (say "nayskip") is **n**itrate (NO_3^-), **a**cetate (CH_3COO^-), **s**ulfate (SO_4^{2-}), **c**arbonate (CO_3^{2-}), **p**hosphate (PO_4^{3-}); notice they are in order of increasing charge.
>
> Nick the Camel ate a Clam Supper in Phoenix.
>
> Nick - N with 3 consonants and 1 vowel therefore NO_3^{-1} (nitrate)
> Camel - C with 3 consonants and 2 vowels, therefore CO_3^{-2} (carbonate)
> Clam - Cl with 3 consonants and 1 vowel, therefore ClO_3^{-1} (chlorate)
> Supper - S with 4 consonants and 2 vowels, therefore SO_4^{-2} (sulfate)
> Phoenix - P with 4 consonants and 3 vowels, therefore PO_4^{-3} (phosphate)