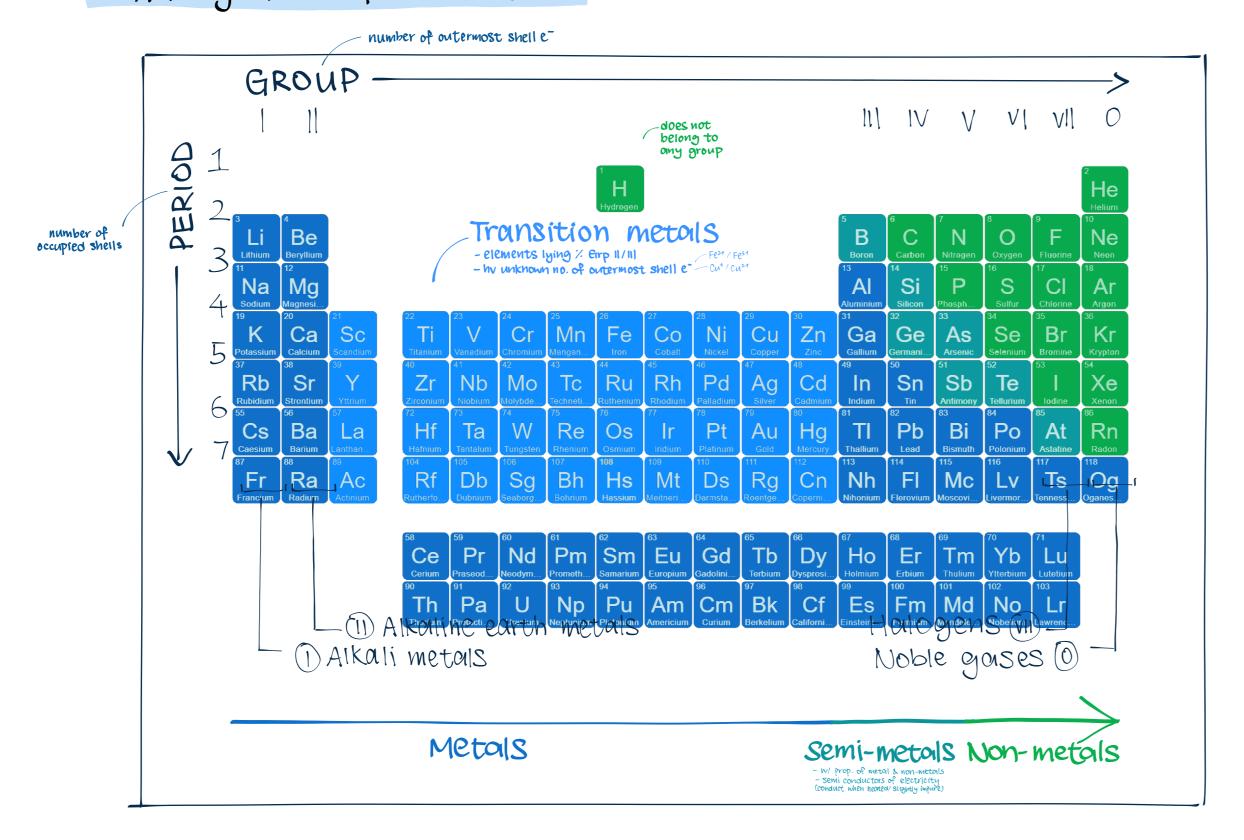
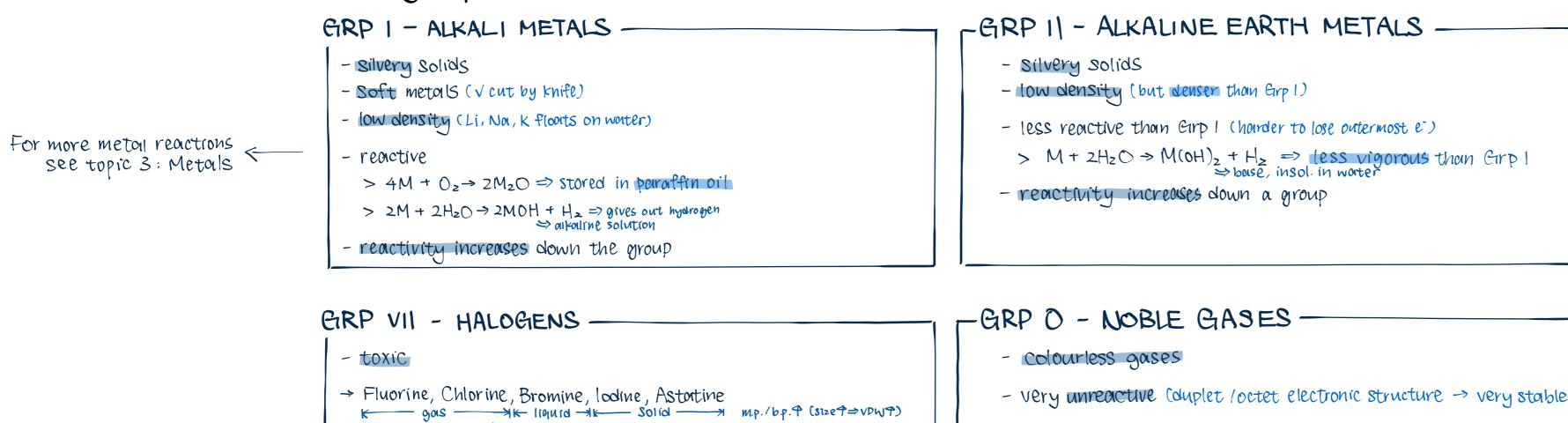


# 1 Arrangement - periodic table

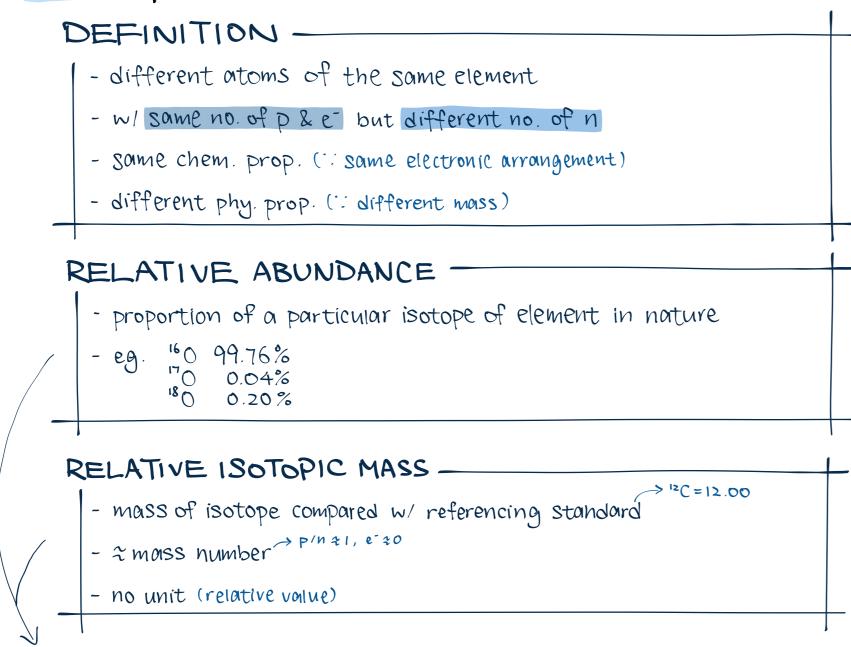


### 2 Main group elements



- very unreactive (duplet /octet electronic structure -> very stable)

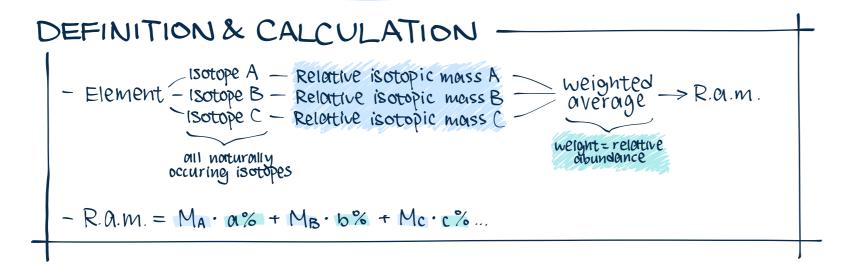
### 3 Isotopes



K- pale -> K- yellowish-> K- reddish -> K- brown black -> colour light -> dark

- reactivity decreases down a group

# 4 Relative atomic mass (R.a.m.)



#### WHY DOES REACTIVITY DIFFER DOWN A GROUP?

- atomic size 7
- attraction % nucleus & outermost shell e +

Grp 1-111

Girp IV-VII

- easier to lose / harder to gain e
- reactivity increases / decreases