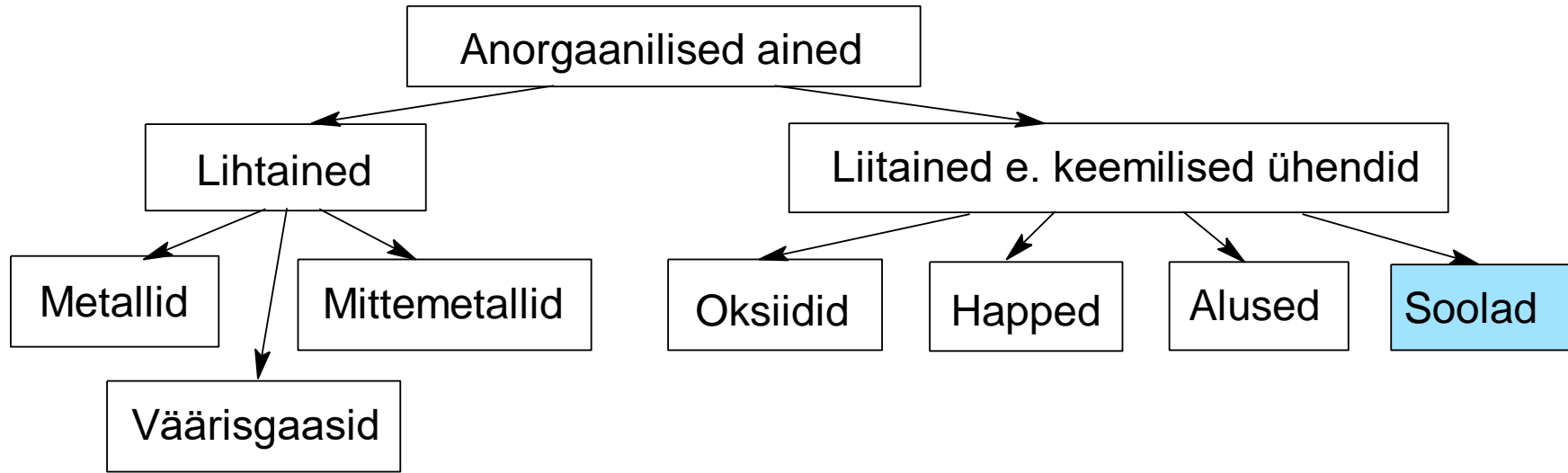


Soolad

Neeme Katt

Anorgaaniliste ainete liigitamine



- Soolad on ained, mis koosnevad aluse katioonist ja happe anioonist.
- NaCl , K_2SO_4 , $\text{Ca}(\text{NO}_3)_2$, $\text{Mg}_3(\text{PO}_4)_2$

Happed ja happeanioonid

HCl	vesinikkloriidhape	Cl ⁻	kloriid
H ₂ S	divesiniksulfiidhape	S ²⁻	sulfiid
H ₂ SO ₃	väävlishape	SO ₃ ²⁻	sulfit
H ₂ SO ₄	väävelhape	SO ₄ ²⁻	sulfaat
H ₂ CO ₃	süsihape	CO ₃ ²⁻	karbonaat
H ₃ PO ₄	fosforhape	PO ₄ ³⁻	fosfaat
HNO ₃	lämmastikhape	NO ₃ ⁻	nitraat
H ₂ SiO ₃	ränihape	SiO ₃ ²⁻	silikaat

Soolade nimetused ja valemid

- Metallil püsiv o.a (IA, IIA, IIIA)

metalli nimi + happeaniooni nimi

K_2CO_3 – kaaliumkarbonaat

- Metallil muutuv o.a (enamus metalle)

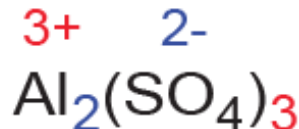
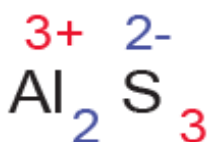
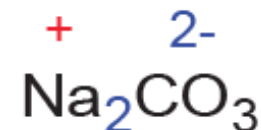
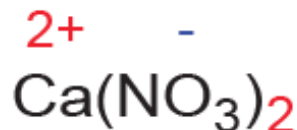
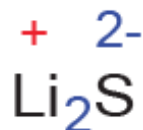
metalli nimi+(o.a)+happeaniooni nimi

$Sn_3(PO_4)_2$ – tina(II)fosfaat

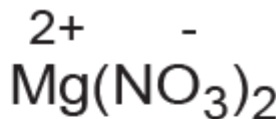
- Soolade **valemite koostamisel** kasutatakse

alati o.a – magneesiumfosfaat $Mg_3^{2+}(PO_4)_2^{3-}$

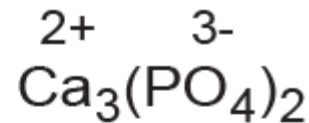
Soola valemi ja nimetuse koostamine



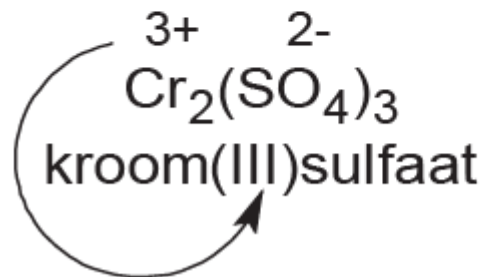
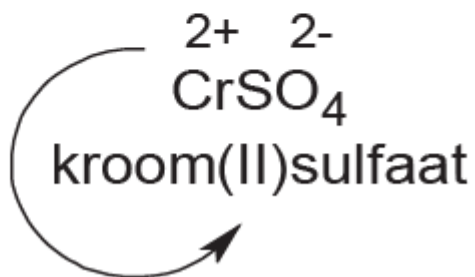
liitiumkloriid



magneesiumnitraat



kaltsiumfosfaat



Tähtsamad soolad (1)

Naatriumkloriid NaCl

- Keedusool
- Paljude ainete tooraine:
 NaOH , Na , Cl_2



Kaltsiumsulfaat CaSO_4

- Kips
- Ehitusmaterjal (pahtel, kipsplaadid)



Tähtsamad soolad (2)

Kaltsiumkarbonaat CaCO_3

- Lubjakivi, marmor, kriit

