

Van Mond tot kont

DE SPIJSVERTERING



Jan heeft pizza besteld.



TOET TOET !



in pizza zitten voedingsstoffen



koolhydraten

Zout

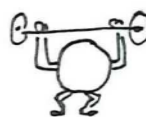


vet



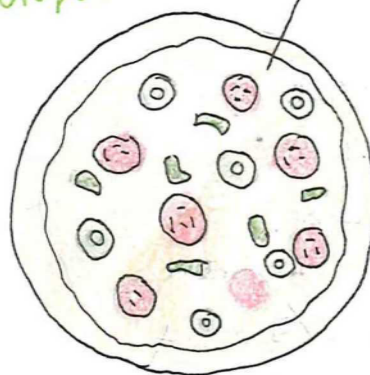
suiker

eiwit

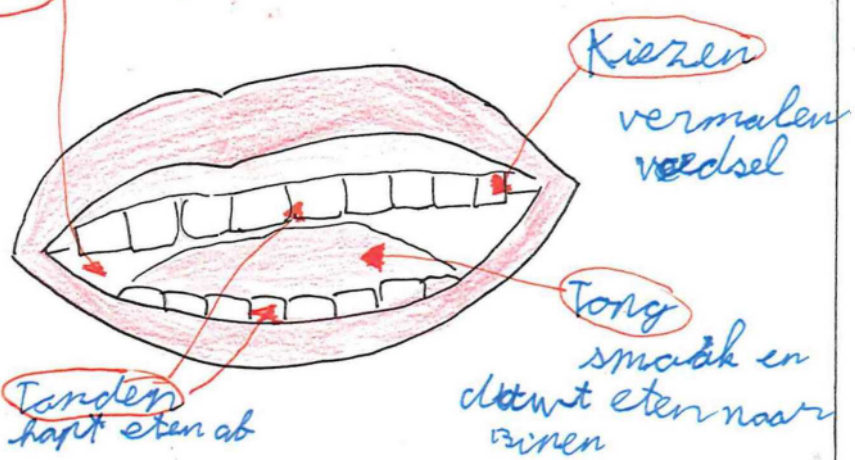


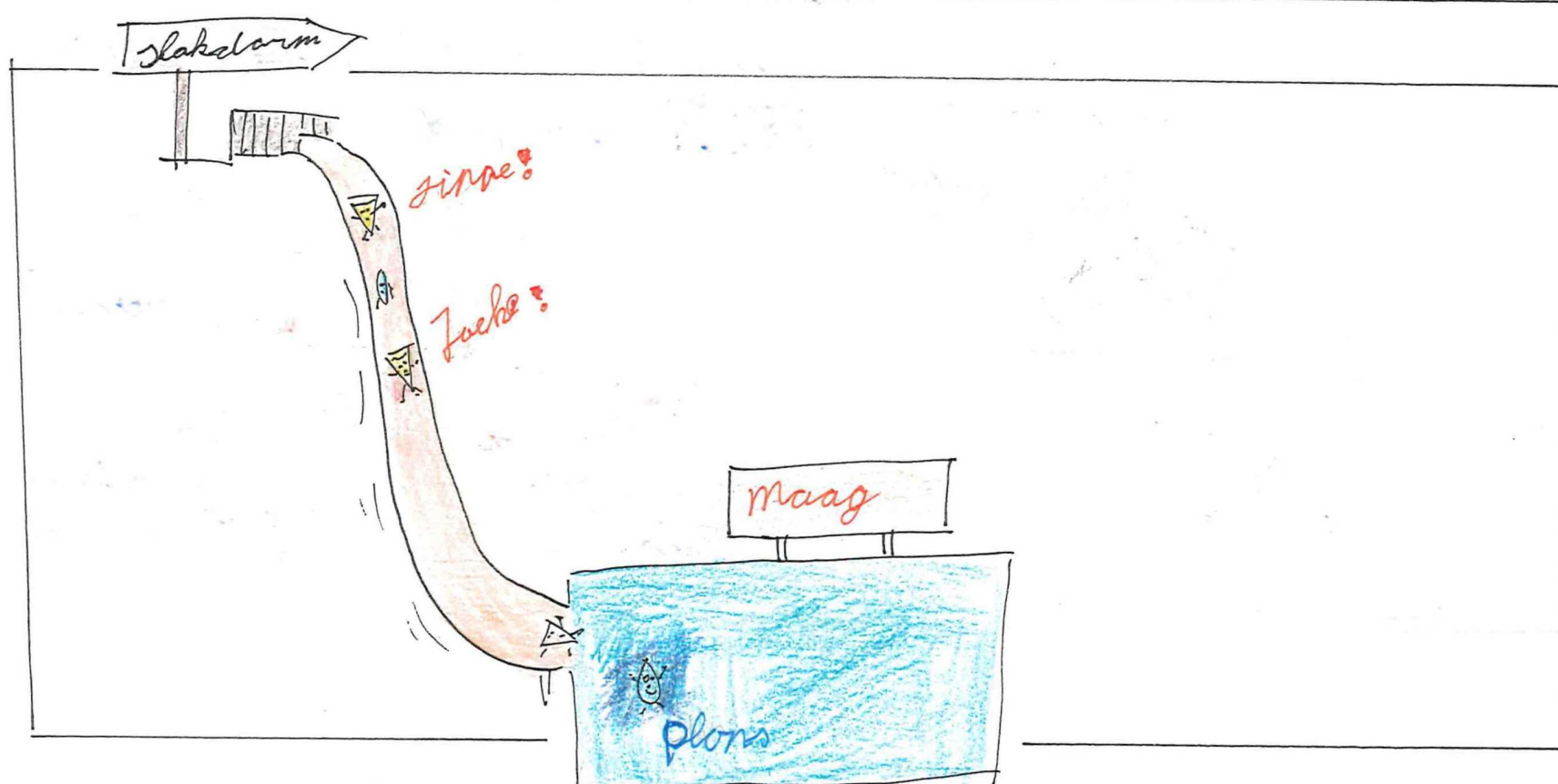
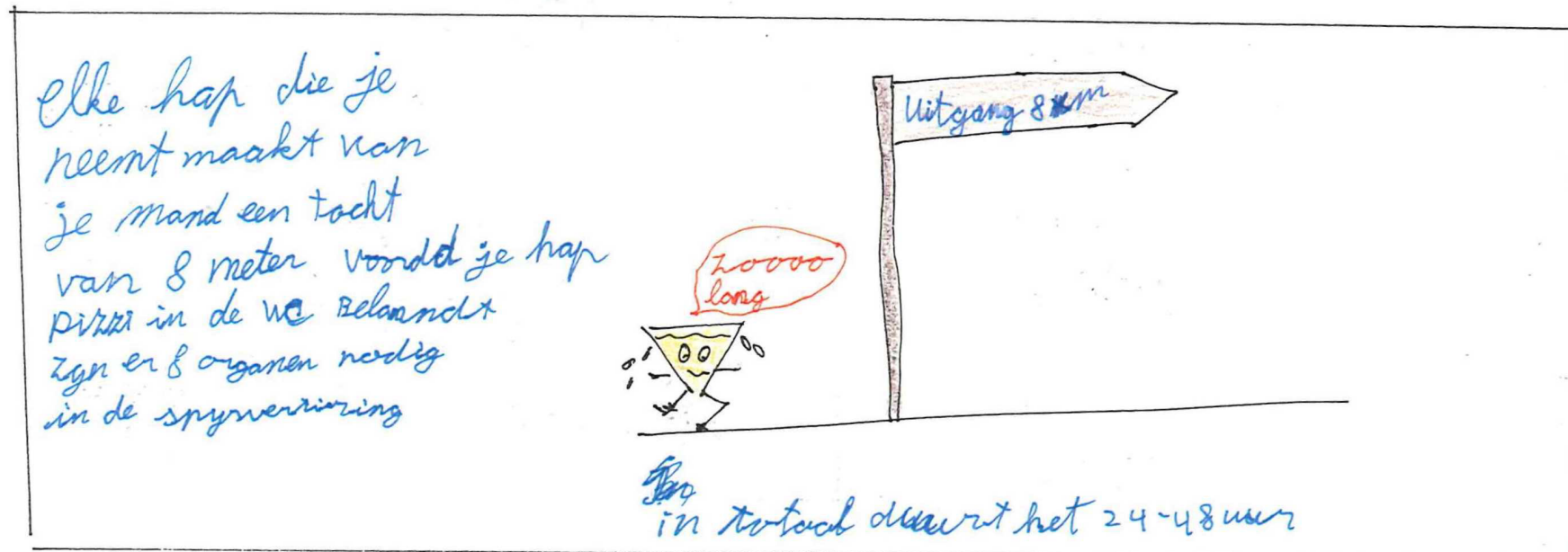
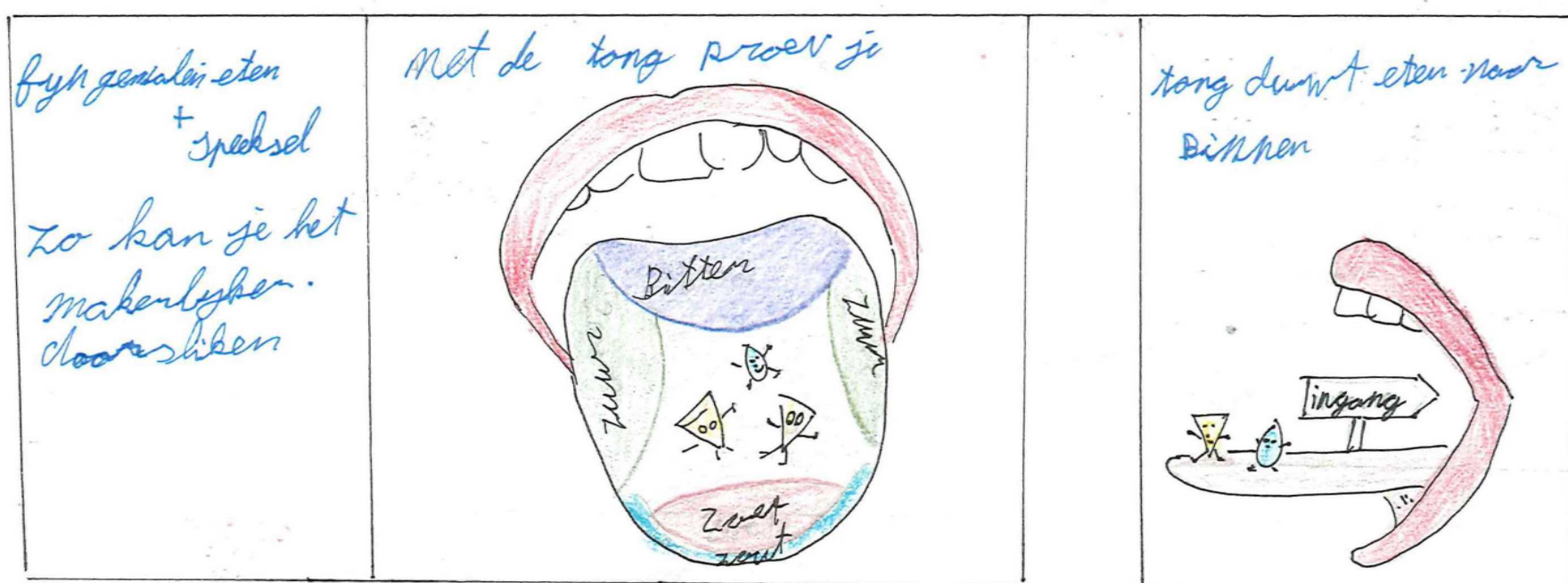
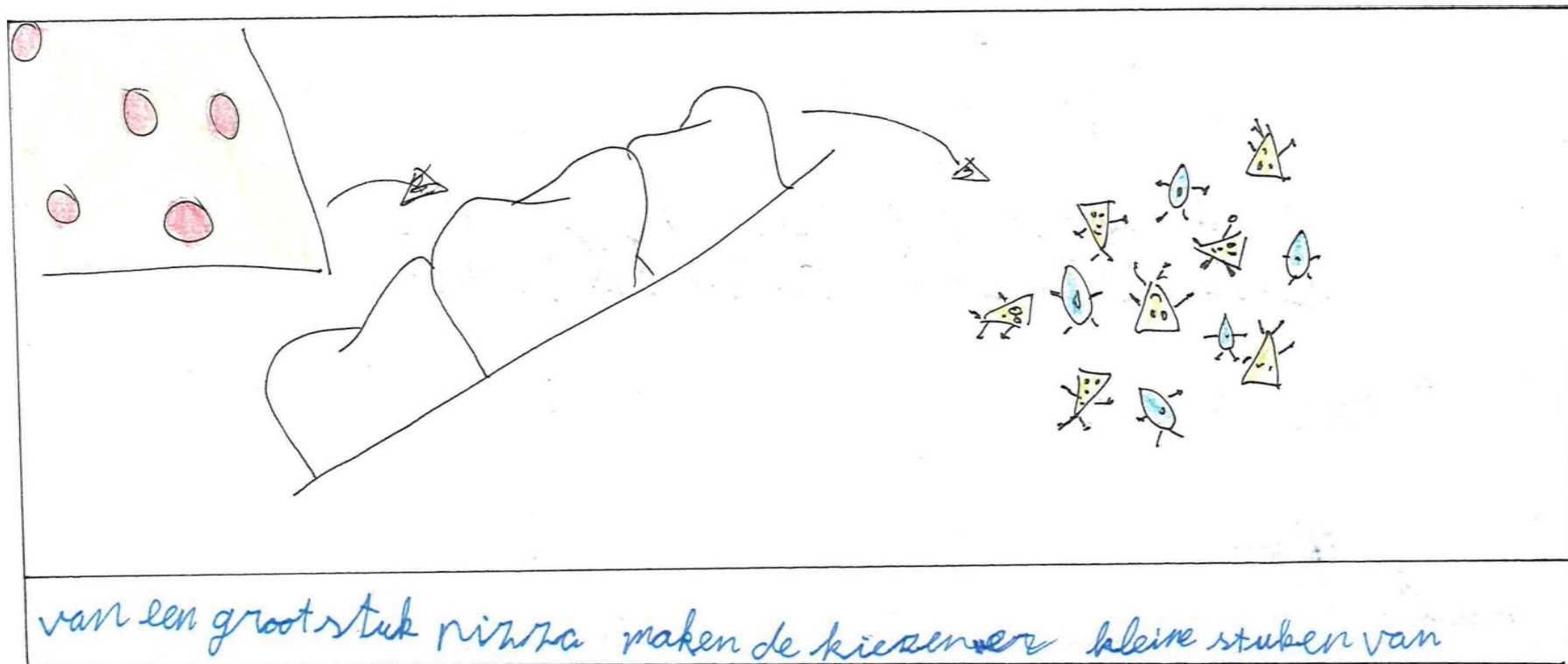
water

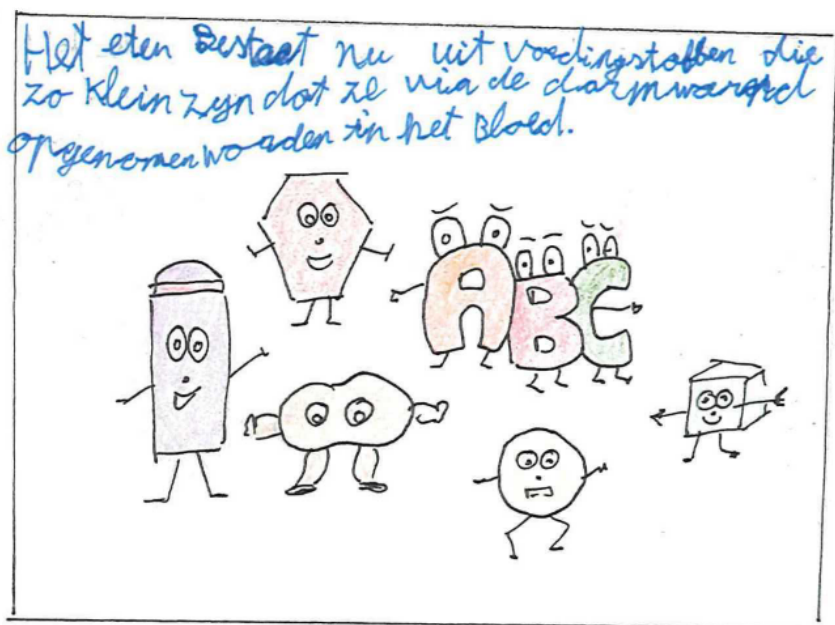
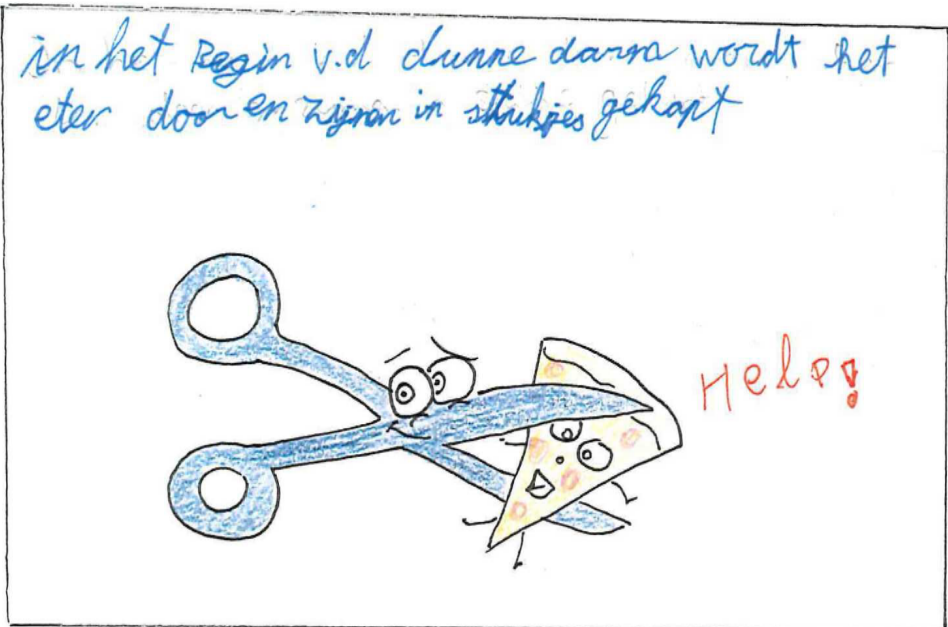
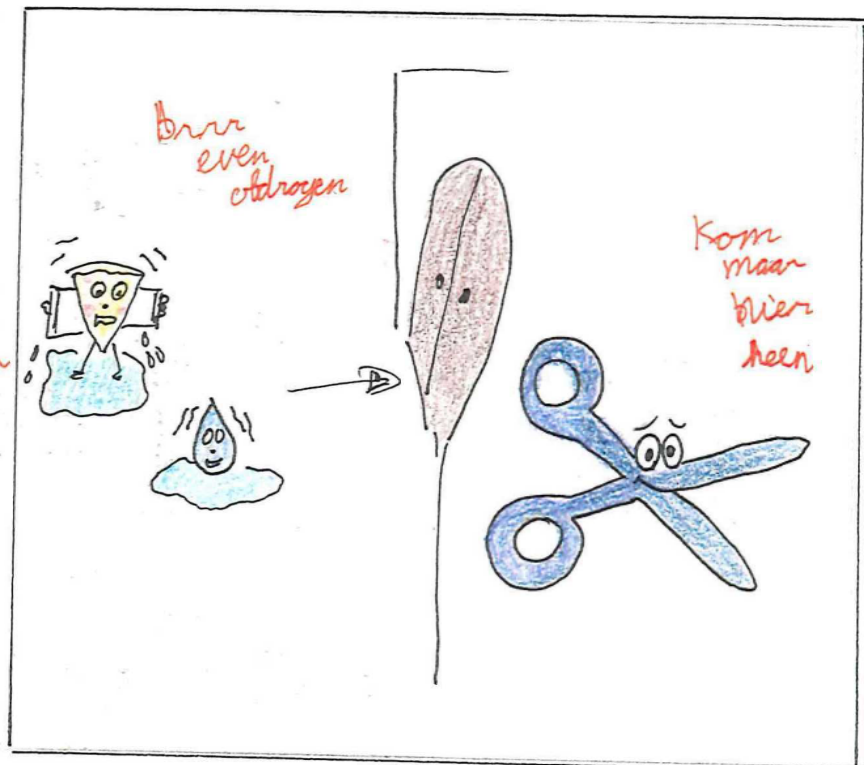
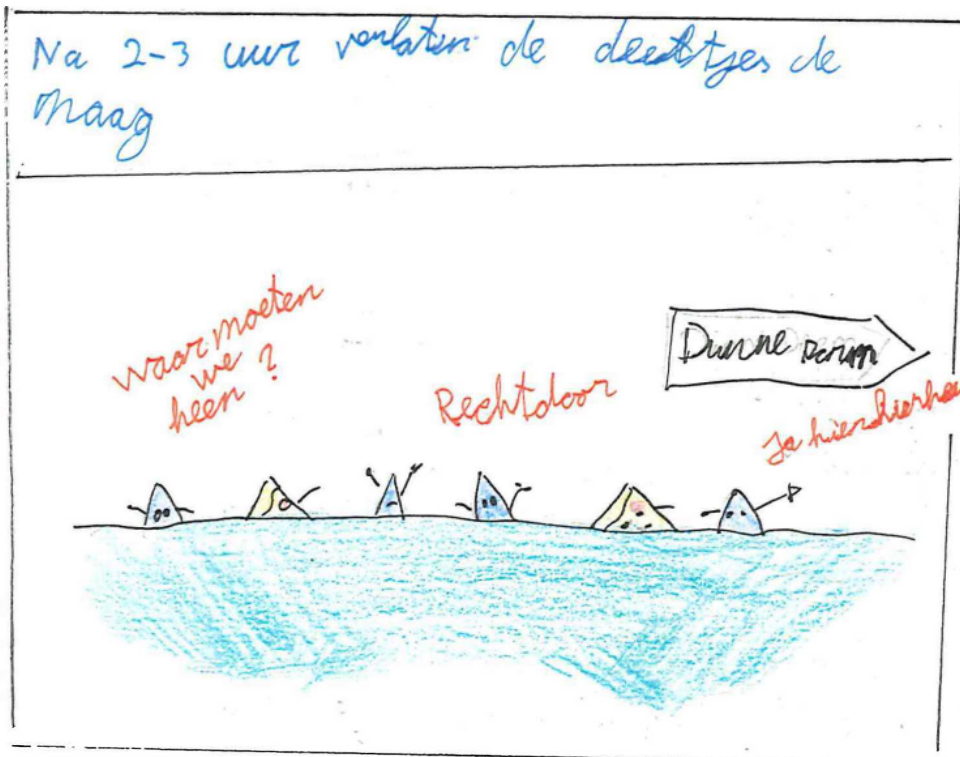
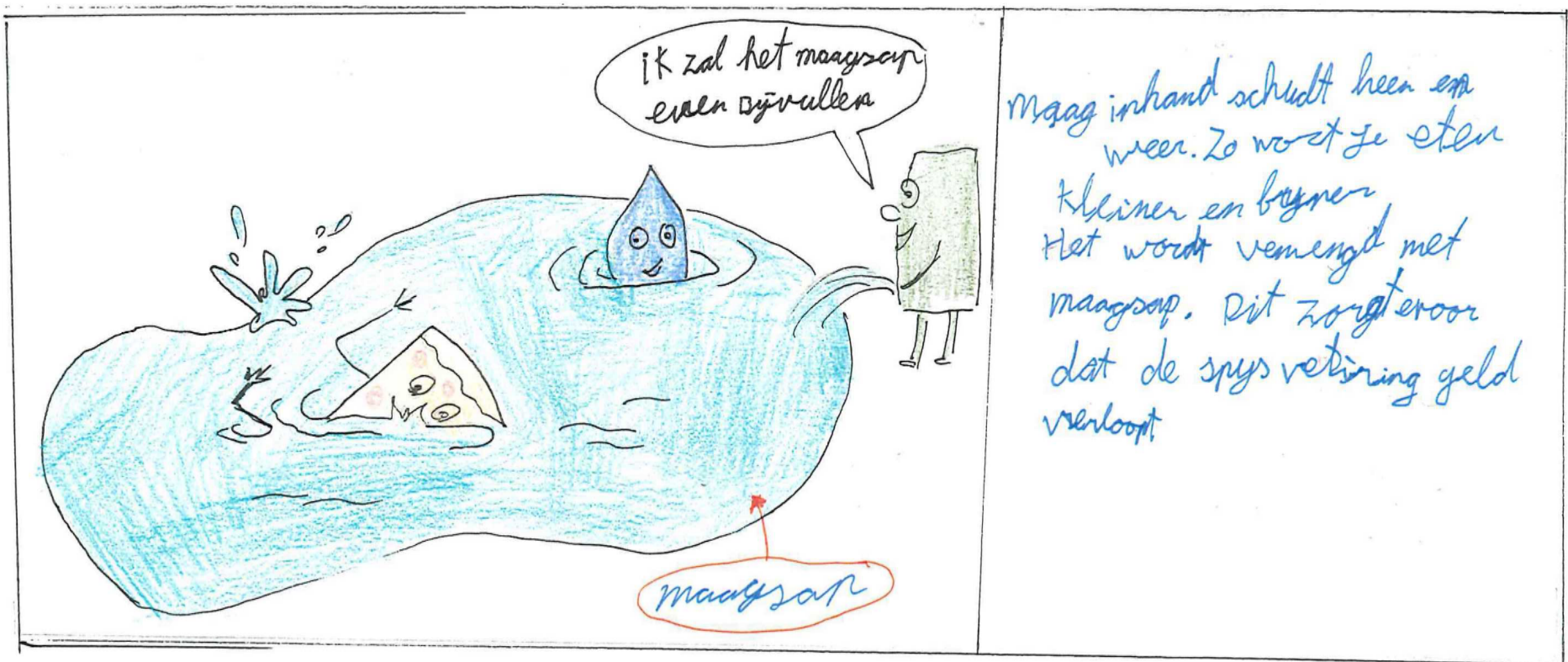
vitamines



maakt eten stap 1 is de mond
vochtig en
ontlekt: reinigt mond

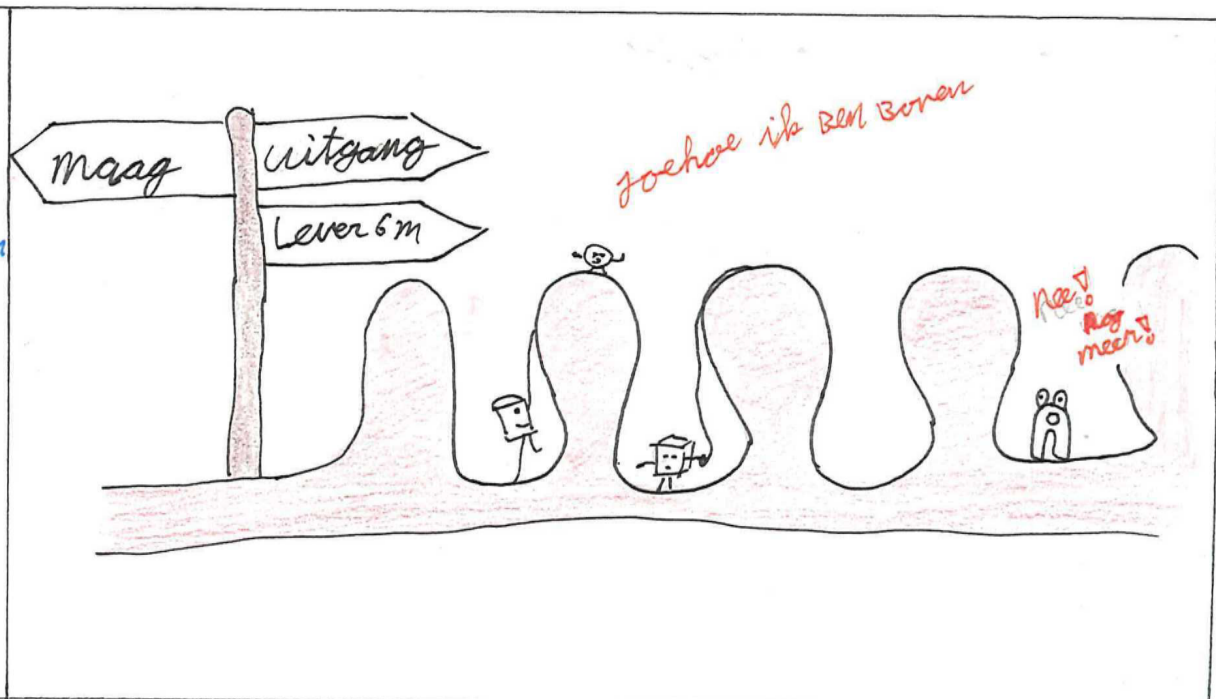




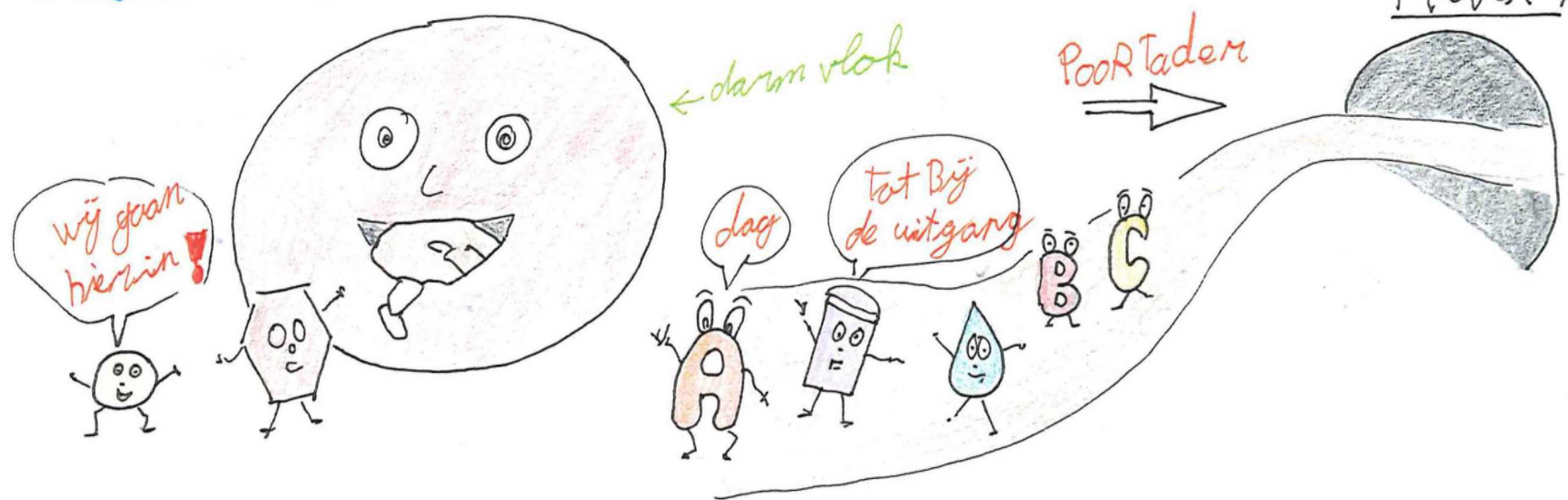


De dunne darm is 5-6 m lang tijdens de reis is dus alle tijd voor een goede spijsvertering:

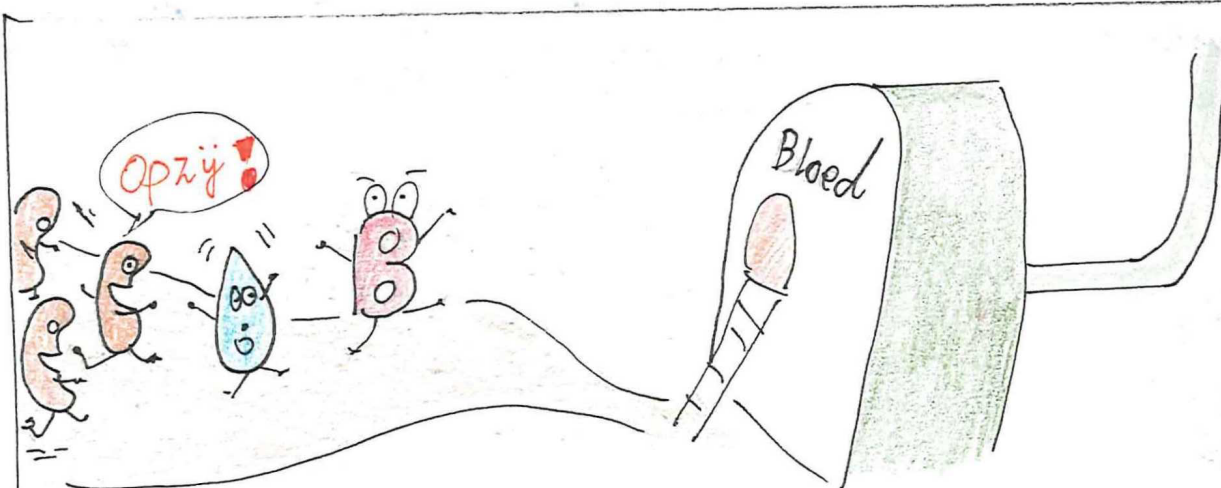
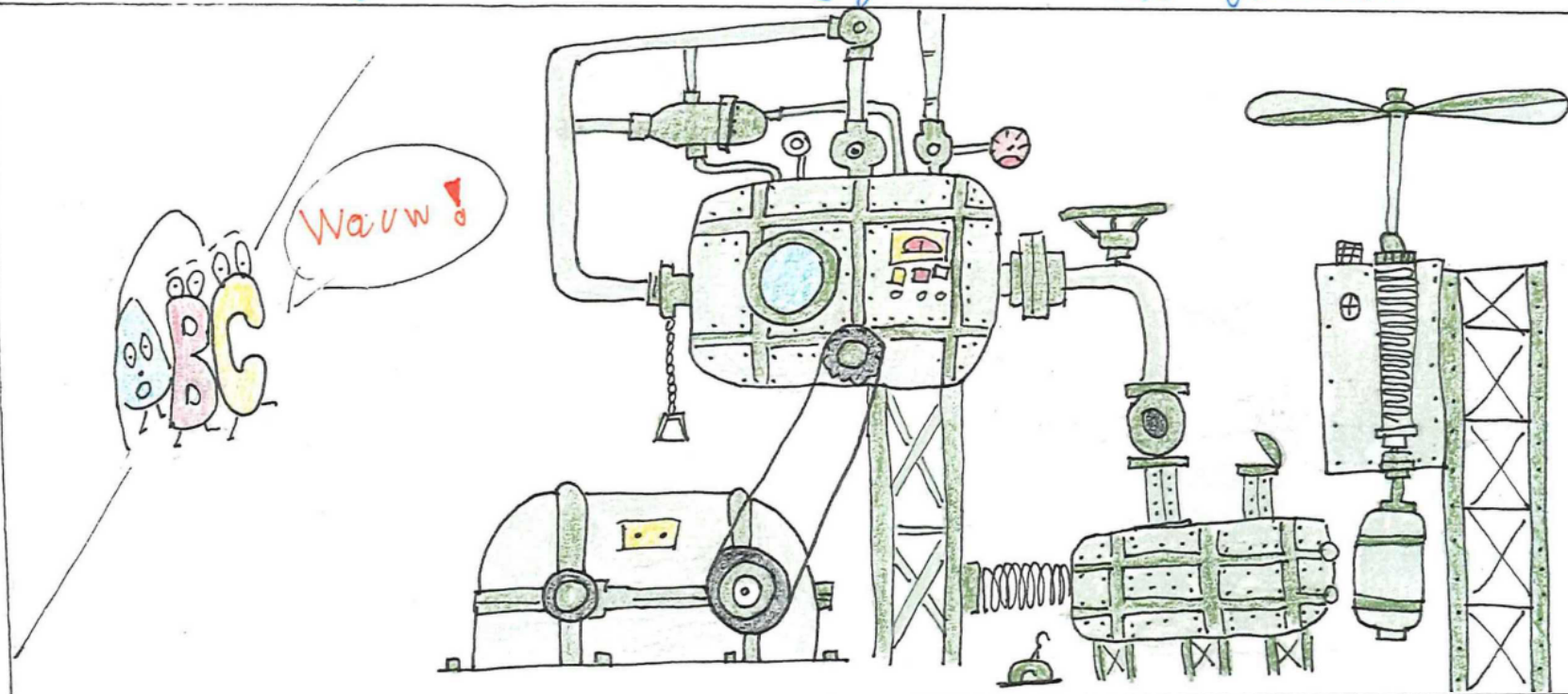
De darmwand bevat plooien (plicae) waardoor is het oppervlak heel groot. Zo groot als een tennisveld. Daardoor worden de voedingsstoffen goed opgenomen.



in de dunne darm worden via de darmvlokken de aminozuren, glucose en vetzuren in het bloed opgenomen

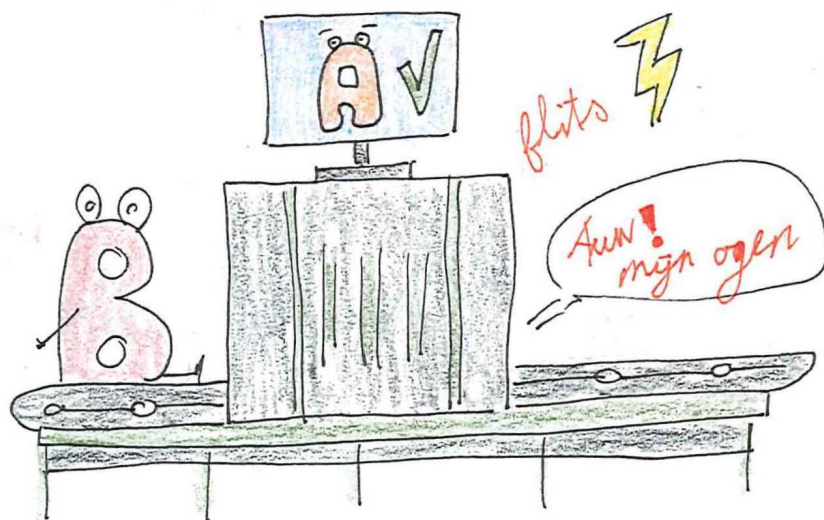


De lever kan je het beste vergelijken met een fabriek



Elke minuut ontvangt de lever ongeveer 1,5 liter bloed

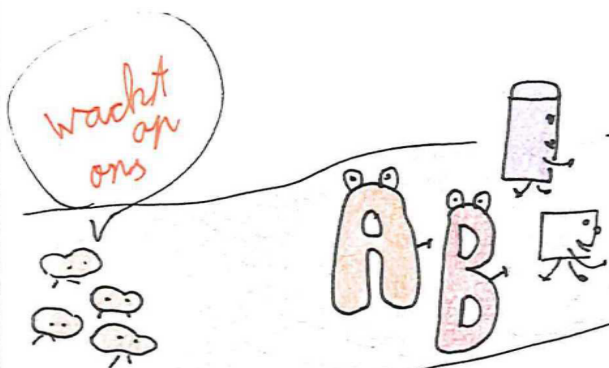
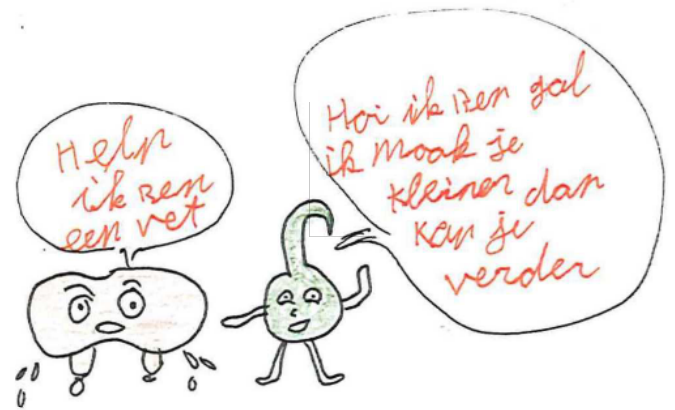
De lever controleert de voedingsstoffen



De galbuis is een soort magazijn gal wandt door de lever gemasht en hier opgeslagen



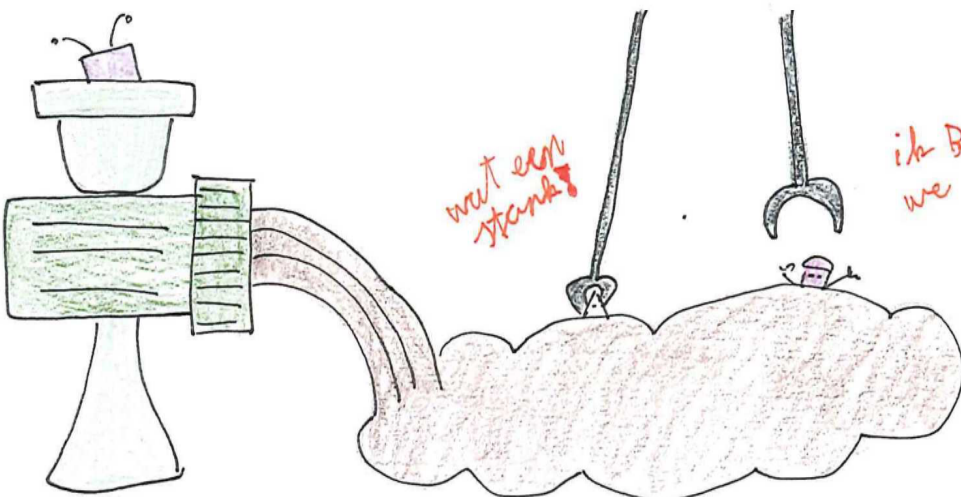
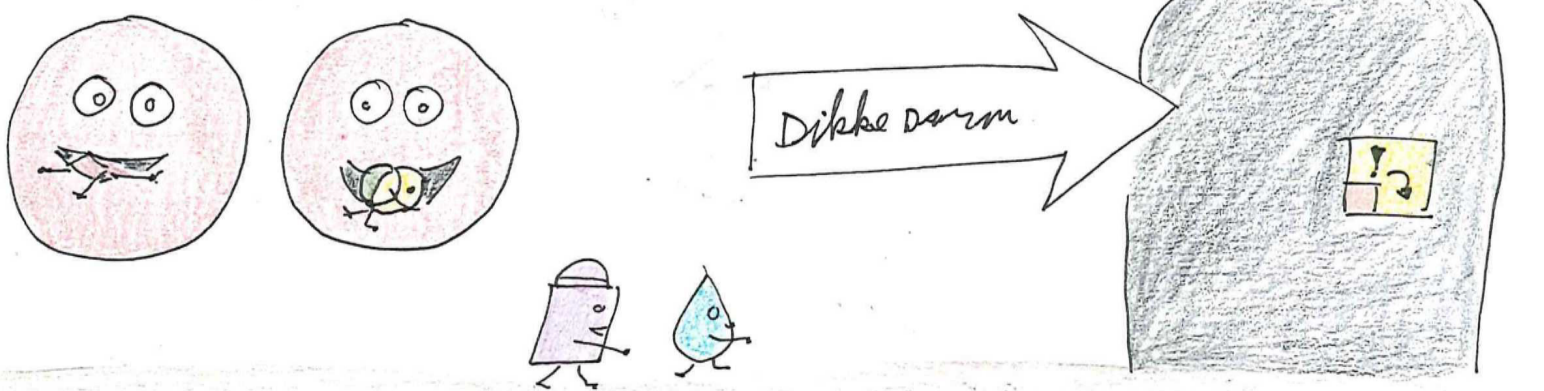
gal maakt met zijn gal zout kleine stukjes van een vetdeeltje



De alvleesklier maakt sap om koolhydraten, vetten en eiwitten in de dunne darm in stukjes te knippen



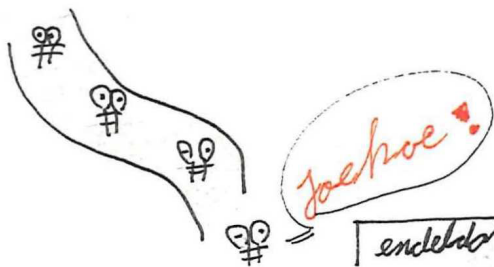
in de dikke darm worden de laatste stoffen opgenomen



De dikke darm haalt nog vocht en zout uit de Drak

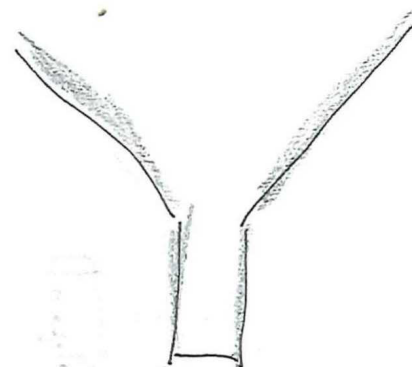
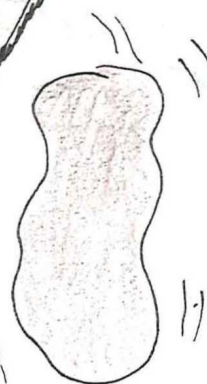
verels helpen mee
om de ontlastings
seegel te houden

Pf6! damen

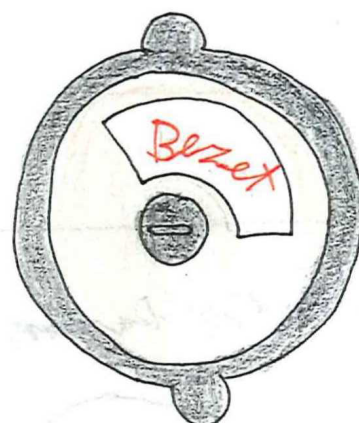


endeldarm

de Drii wordt abgevat naar de
endeldarm

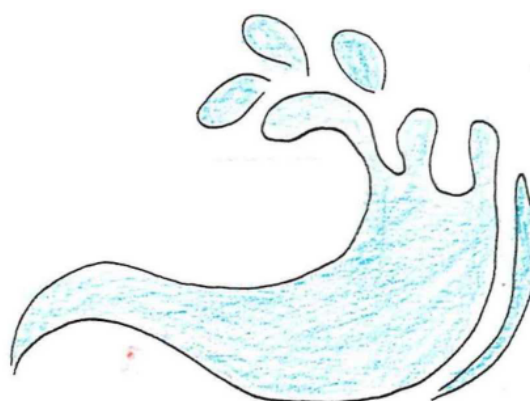
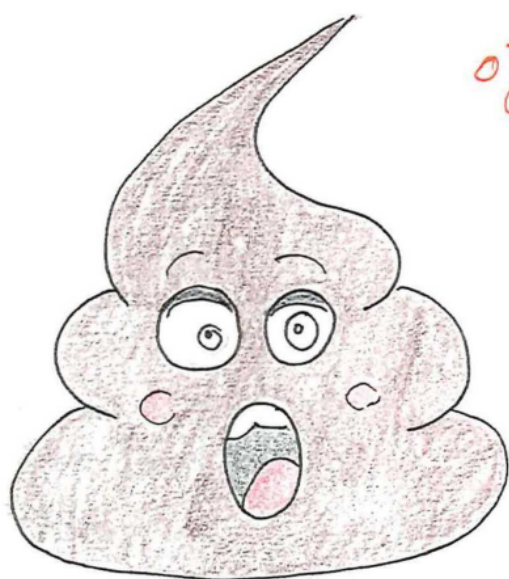


is de endeldarm vol? Dan wordt er
een seintje naar je hersenen gestuurd



ojee!

mijn reis
begint nu
pas



Einde