

3.6 ORGANIC ANALYSIS

Orange bromine water decolourises in the presence of an alkene

Test for Alkenes

Tollens' reagent

Silver mirror coating forms on the test tube in the presence of an aldehyde

Test for Aldehydes

Fehling's solution

Blue solution forms a brick red precipitate in the presence of an aldehyde

Test for Alcohols

Solution remains orange

Tertiary alcohols will not react

Add acidified potassium dichromate(VI)

Primary and secondary alcohols will react

Solution turns from orange to green

Test the new solution for an aldehyde

Test for Carboxylic Acids

Add sodium carbonate

If a carboxylic acid is present then the solution will fizz due to CO_2

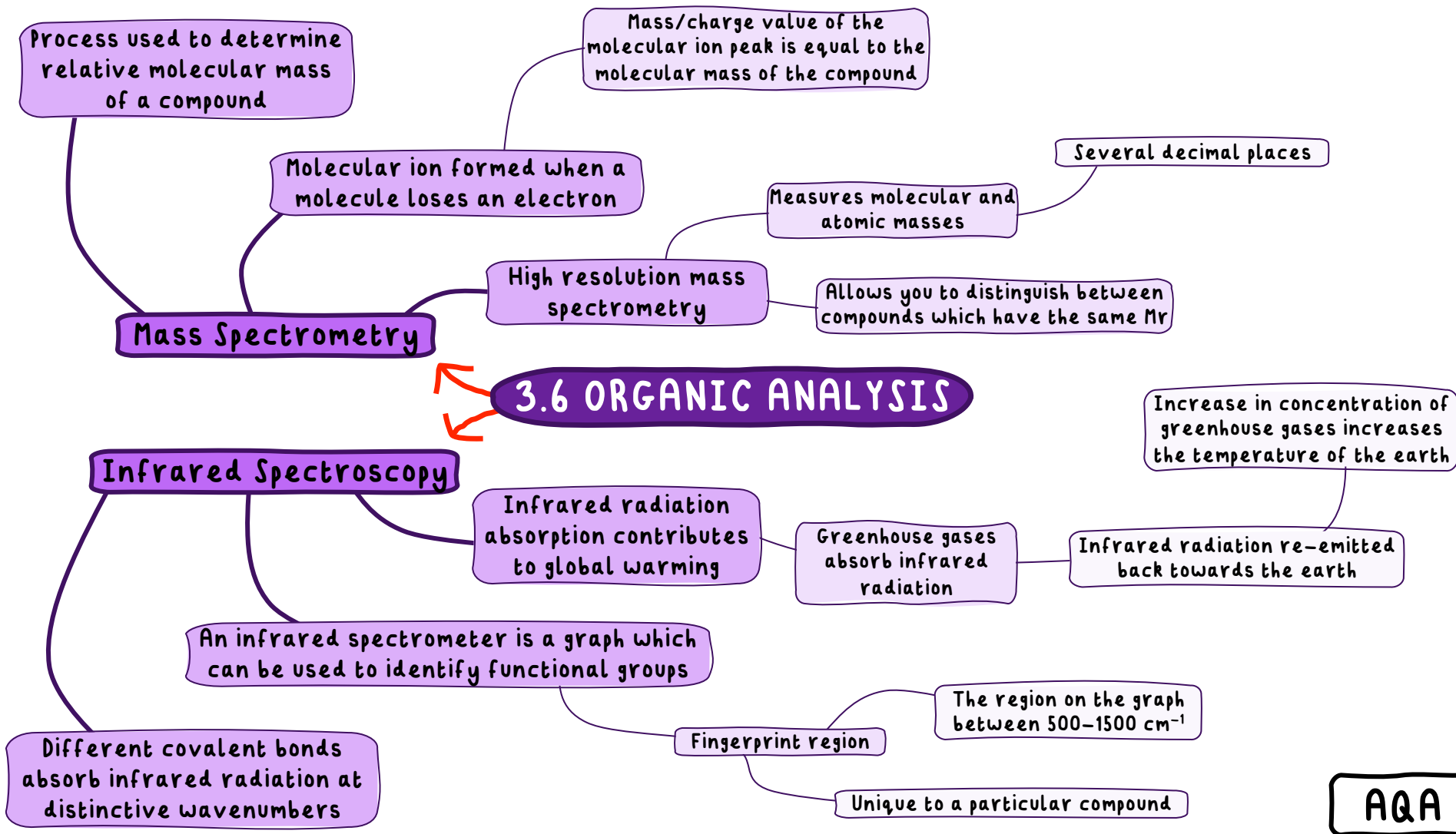
CO_2 will turn limewater cloudy

Determines if the original sample was a primary or secondary alcohol

If an aldehyde is present then the original alcohol was a primary alcohol

AQA





AQA

