

# Challenging Plants

## Making salts

- [ammonium sulphate](#)
- [magnesium sulphate](#)
- [zinc sulphate](#)
- [calcium nitrate](#)
- [ammonium dihydrogen phosphate](#)
- [diammonium hydrogen phosphate](#)
- [potassium dihydrogen phosphate](#)
- [copper\(II\) citrate](#)
- [copper\(II\) ethanoate](#)

## Making complexes

- [iron\(III\) EDTA complex](#)
- [cis/trans copper\(II\) aminoethanoate](#)

## Rates of reaction

- [hydrolysis of urea](#)

## Colorimetric measurements

- [manganese by manganate\(VII\) assay](#)
- [iron\(III\) ions](#)
- [thiocyanate ions](#)
- [iron\(II\) ions](#)
- [phosphate](#)

## Experiments

## Plant chemistry/biology experiments

- [uptake of water by plants](#)
- [passive transport of starch and glucose](#)
- [passive transport of starch and chloride ions](#)
- [rate of passive transport](#)
- [rate of osmosis](#)
- [Effect of nutrient solutions on plant growth \(soil culture\)](#)
- [effect of nutrient solutions on plant growth \(floating culture\)](#)
- [effect of nutrients on plant growth \(hydroponics\)](#)

## Chemistry investigations

- [thiocyanate ions in waste water](#)
- [manganese in a fertiliser](#)
- [uptake of zinc by plants](#)
- [release rate of fertilisers](#)
- [soil exchange capacity using methylene blue](#)
- [soil/water distribution coefficient of zinc ions](#)
- [effect of pH on distribution coefficient of zinc ions](#)
- [effect of temperature on the distribution coefficient of zinc ions](#)
- [comparing chelated and non-chelated micronutrients](#)
- [nutrient solutions](#)

[Plant Science](#)

[Soil](#)

[Fertilisers](#)