



AS PRACTICAL 1

Water of crystallisation (Technician)

You need to carry out a risk assessment before doing this practical

Apparatus	<p><i>In lab:</i></p> <ul style="list-style-type: none">• beaker of hydrated magnesium sulfate with spatula by each balance• balances (0.01 g or 0.001 g) – each with glass beaker on balance• splints / matches to light Bunsens <p><i>Per student</i></p> <ul style="list-style-type: none">• boiling tube• test/boiling tube holders• balances (0.01 g or 0.001 g) – each with glass beaker on balance• Bunsen burner• mat
Chemicals	<ul style="list-style-type: none">• Hydrated magnesium sulfate ($\text{MgSO}_4 \cdot 7\text{H}_2\text{O}$) – this should be put out in small beakers and labelled 'hydrated magnesium sulfate' (and not with the formula!) (each student needs about 3 g)
Notes	<ul style="list-style-type: none">• Please check that the balance can accommodate the mass of a glass beaker with a boiling tube.• Do not use tongs for boiling tubes.• The experiment can be done with crucibles and tongs but it is safer for movement around the room to use boiling tubes with tongs