

**Procedure to investigate  
how powders effect the rate of decomposition of hydrogen peroxide**

- Half fill a trough with water.
- Fill a burette with water, cover the open end with your thumb and upturn so the end is below the surface of the water.
- Clamp the burette using a clamp, boss and stand.
- Measure 75 cm<sup>3</sup> of 20 volume hydrogen peroxide with a measuring cylinder and pour into a conical flask.
- Connect the side arm of the flask to the bottom of the burette with rubber tubing.
- Weigh out between 0.3 and 0.5 g of powder and put this into the small test-tube.
- Tie one end of thread around the test-tube and suspend it above the hydrogen peroxide in the flask.
- Simultaneously loosen the bung to drop the test-tube into the flask and start the stop clock.
- Record the level of water in the burette every 20 seconds for 5 minutes or until the water level goes below the level of the burette.

<b>Time / s</b>	<b>Burette reading / cm<sup>3</sup></b>	<b>Time / s</b>	<b>Burette reading / cm<sup>3</sup></b>	<b>Time / s</b>	<b>Burette reading / cm<sup>3</sup></b>
20		120		220	
40		140		240	
60		160		260	
80		180		280	
100		200		300	