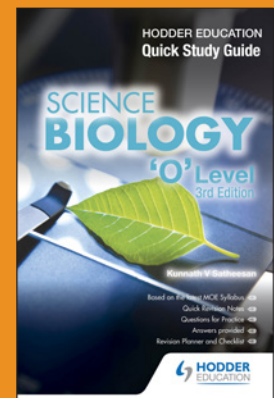
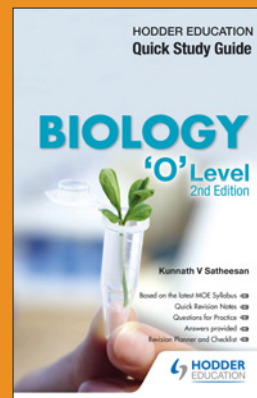
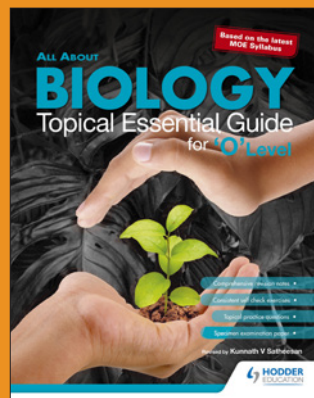
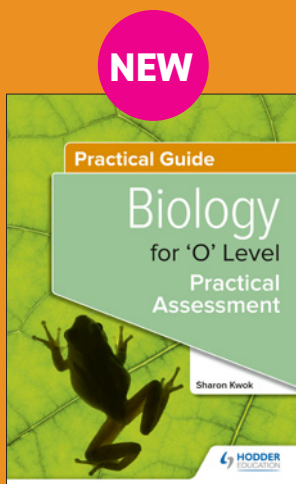
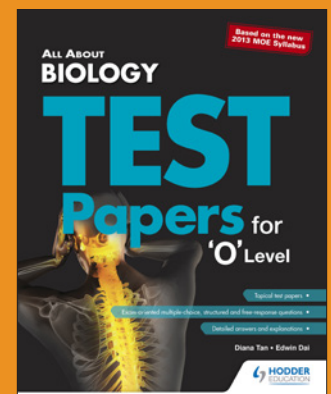
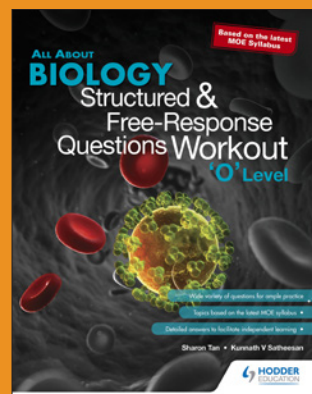
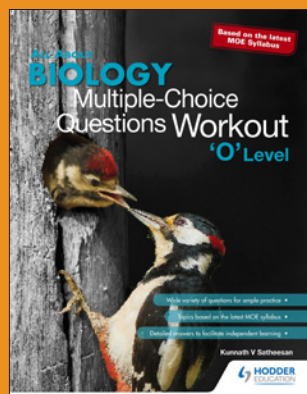
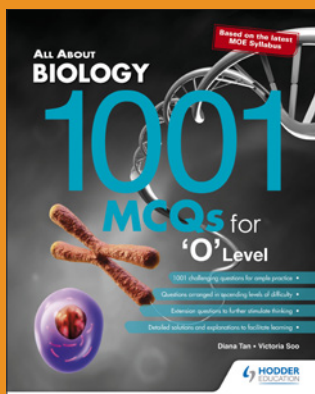


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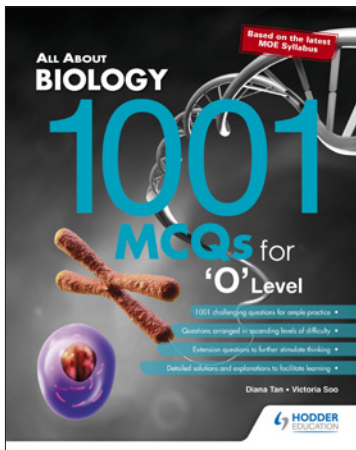


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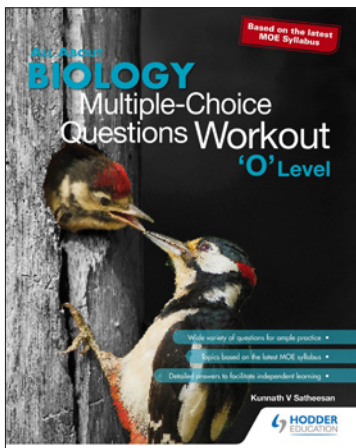
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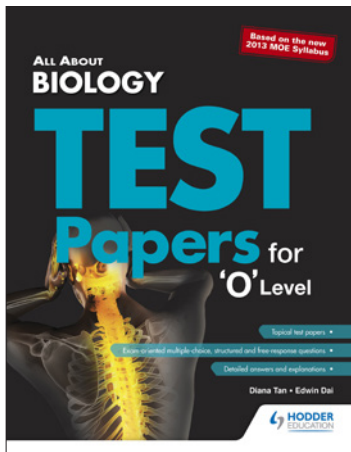
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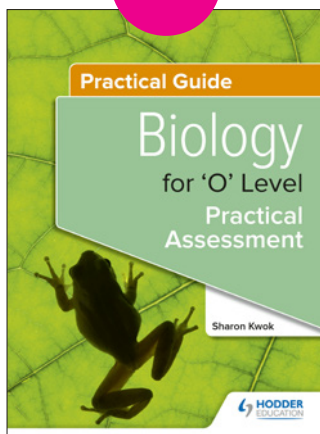
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**Experiment 22**

Catalase is an enzyme that catalyses the breakdown of hydrogen peroxide, producing a gas. Catalase is found in many cells, including plant cells, animal cells and yeast cells.

You are going to investigate the activity of catalase on hydrogen peroxide in potato tissues.

You are provided with:

- A peeled raw potato
- A peeled 'boiled' potato
- A 15 cm ruler
- A pair of forceps
- A blade or scalpel
- A white tile
- Hydrogen peroxide solution
- 2 boiling tubes
- 1 rubber stopper
- 1 delivery tube
- 1 stopwatch

The activity of catalase will be measured by counting the number of bubbles of gas released in 1 minute.

**Step 1** Pour hydrogen peroxide solution into a boiling tube to a height of 4 cm.

**Step 2** Pour water into another boiling tube to a height of 4 cm.

**Step 3** Prepare the apparatus as shown. Make sure that the end of the delivery tube is below the surface of the water throughout the experiment.

**Practical checklists**

**Drawing**

- Size and proportion: drawing occupies more than half of the space provided, parts in the drawing drawn in correct proportion to each other
- All relevant parts drawn
- Lines: continuous dark pencil lines of even thickness
- Labels: label any required parts at the sides of the drawing with straight pencil lines

**Tables**

- Headings: all quantities and units correct
- Decimals: all values with correct dip
- Calculations: all calculated values correct (if required)

**Graphs**

- Scale: graph occupy more than half of the grid horizontally and vertically
- Line: best fit straight line or curve
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- Points: all points correctly plotted

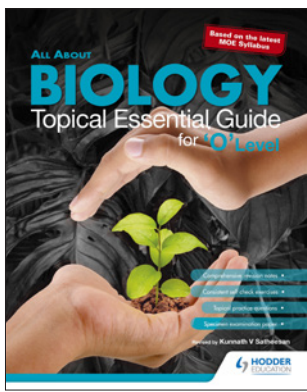
**Planning**

- Independent variable
- Dependent variable
- Controlled variables
- Steps
- Any other points required by question

Please note these are manuscript and not final pages.

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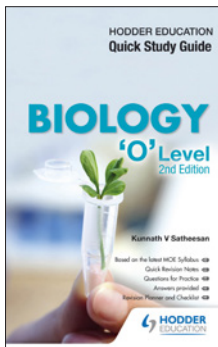


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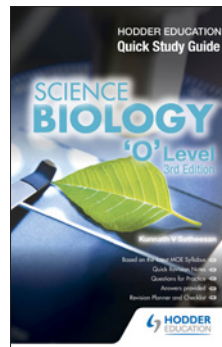
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