

10

- 6 (a) Salt solution has a higher boiling point than distilled water.

Larutan garam mempunyai takat didih yang lebih tinggi daripada air suling.

Review: The hypothesis must compare the boiling point of salt solution and distilled water.

- (b) (i) Aim of the experiment

Tujuan eksperimen:

To show that the boiling point of salt solution is higher than distilled water.

Untuk menunjukkan takat didih larutan garam adalah lebih tinggi daripada air suling.

Review: We have to carry out an experiment to compare the boiling point of salt solution and distilled water.

- (ii) Variables

Pemboleh ubah:

- Manipulated variable

Pemboleh ubah dimanipulasikan

Types of solution/Jenis larutan

- Responding variable

Pemboleh ubah bergerak balas:

Boiling point/Takat didih

- Constant variable

Pemboleh ubah dimalarkan:

Volume of solution/Thermometer used

Isi padu larutan/Termometer yang digunakan

Review: State the three variables of the experiment.

- (iii) List of apparatus and materials

Senarai radas dan bahan:

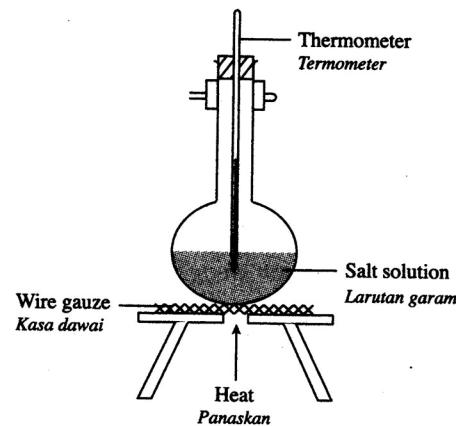
Beakers, Bunsen burner, distilled water, salt, thermometer, round-bottomed flask, wire gauze and retort stand

Bikar, pernuru Bunsen, air suling, garam, termometer, kelalang berdasar bulat, kasa dawai dan kaki retort

Review: List all the materials and apparatus required for the experiment.

- (iv) Procedure/Prosedur:

1. The apparatus is set up as shown in the diagram.



2. 100 cm³ of salt solution is heated until it boils.

100 cm³ larutan garam dipanaskan sehingga mendidih.

3. The boiling point of the salt solution is recorded.

Takat didih larutan garam direkod.

4. The experiment is repeated by using 100 cm³ of distilled water.

Eksperimen itu diulangi dengan menggunakan 100 cm³ air suling.

Review: State the procedure for carrying out the experiment. It is better to include a labelled diagram. Instructions must be short and clear.

- (v) Tabulation of data/Penjadualan data:

Solution <i>Larutan</i>	Boiling point (°C) <i>Takat didih (°C)</i>
Salt solution <i>Larutan garam</i>	
Distilled water <i>Air suling</i>	

Review: Construct a table to record the results. The results must be sufficient for us to make conclusion.