

Analysis of Data and Conclusions

Question Paper 1

Level	Pre U
Subject	Biology
Exam Board	Cambridge International Examinations
Topic	Analysis of Data and Conclusions
Booklet	Question Paper 1

Time Allowed: 17 minutes

Score: /14

Percentage: /100

- 1 You are reminded that you have only **35 minutes** for question 1.

You should read through the whole of this question carefully and then plan your use of the time to make sure that you finish all the work that you would like to do.

The fruit of the cotton plant, *Gossypium hirsutum*, contains seeds surrounded by fibres known as lint. During processing, the lint is separated from the seeds and made into cotton fibres. The lint may stick to the processing equipment if reducing sugars and non-reducing sugars are attached to it. The quantity of sugars present determines the stickiness of the lint. Some sugars come from the plant and some fall on the lint after egestion by aphids that feed on cotton plants.

You are provided with five beakers of water, **C1** to **C5**, in which different samples of lint have been soaking for 24 hours. The same volume of water and mass of lint was used in each beaker.

Plan and carry out a safe procedure to test the water in beakers **C1** to **C5** for the presence of any sugars. The hazards associated with any of the materials involved are clearly marked on the containers.

Use your results to deduce the stickiness of the lint samples that have been soaking in each beaker.

Record your results and conclusions in a suitable form in the space below and on page 3.

