

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT

2026

INTEGRATED SCIENCE PAPER 2

905/2 1 hour

Name _____

Assessment number _____

School _____

INSTRUCTIONS TO CANDIDATES

Answer all three questions.

Use the diagrams and observations provided.

You require a ruler and a non-programmable calculator.

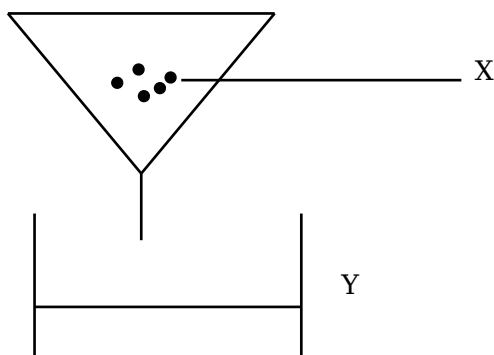
Print at 100% actual size. Do not use Fit to page.

Answer the structured questions in the spaces provided. Show working where required.

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1. A learner mixes chalk powder with water, stirs the mixture and pours it through the apparatus shown.

Mixture of water and chalk powder



(a)(i) State one observation made immediately after stirring. (1 mark)

(a)(ii) Classify the mixture as homogeneous or heterogeneous. Give a reason. (2 marks)

(b)(i) Name the separation method shown. (1 mark)

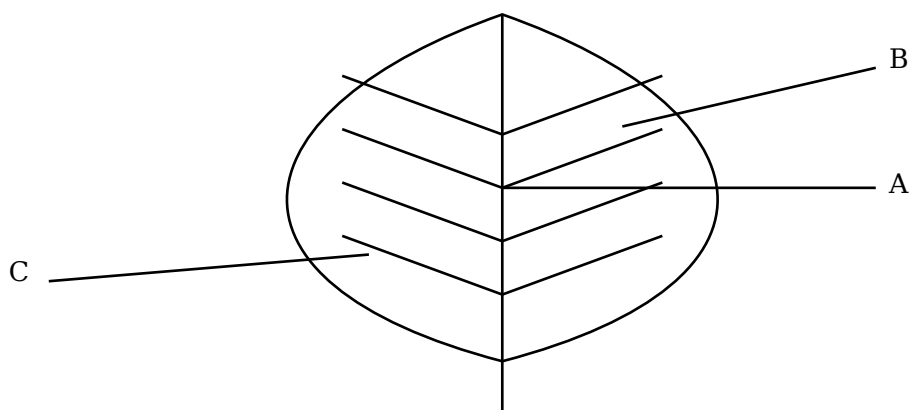
(b)(ii) Name the material at X and the liquid collected at Y. (2 marks)

(c) State the function of the filter paper. (1 mark)

(d) Describe how the chalk remaining on the filter paper can be recovered as a dry solid. (2 marks)

(e) Give one precaution that prevents the mixture from spilling during filtration. (1 mark)

2. A learner observes a leaf and investigates the effect of water temperature on the rate of photosynthesis in pondweed.



Water temperature (°C)	Trial 1 bubbles/min	Trial 2 bubbles/min	Trial 3 bubbles/min	Mean
15	14	17	17	16
25	26	29	29	—
35	38	41	41	40
45	8	11	11	10

(a) Identify the parts labelled A, B and C on the leaf drawing. (3 marks)

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(b) Explain two ways in which the leaf is adapted for photosynthesis. (4 marks)

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(c)(i) Calculate the mean number of bubbles at 25°C. (1 mark)

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(c)(ii) At which tested temperature is the mean rate highest? (1 mark)

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(c)(iii) State one factor that must be kept constant when comparing these temperatures. (1 mark)

3. The two drawings show the front and side faces of a rectangular metal block. Print this paper at actual size. The balance scale gives the block's mass.

(a) Use a ruler to measure and record the length, width and height of the block in centimetres. (3 marks)

Drawn to actual size. Measure the labelled edges.

Front face



length

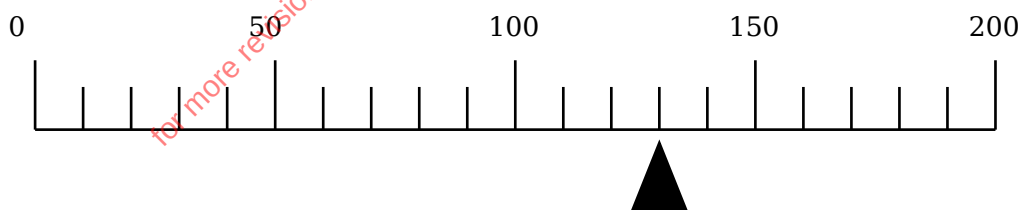
height

Side face



width

(b)(i) Read and record the mass in grams. (1 mark)



Mass in grams

(b)(ii) Convert the mass to kilograms. (1 mark)

(c) Calculate the weight. Take gravitational field strength as 10 N/kg. (2 marks)

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(d) Calculate the greatest pressure the block can exert on a horizontal surface. Give the answer in N/cm². Pressure = force ÷ contact area. (3 marks)

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