

Unit 3 and 4 Biology 2022:

Unit 3, AOS 2, Outcome 1 Topics 6 and 7

Alternate 3

Experimental Design and AOS 2: How are biochemical pathways regulated?

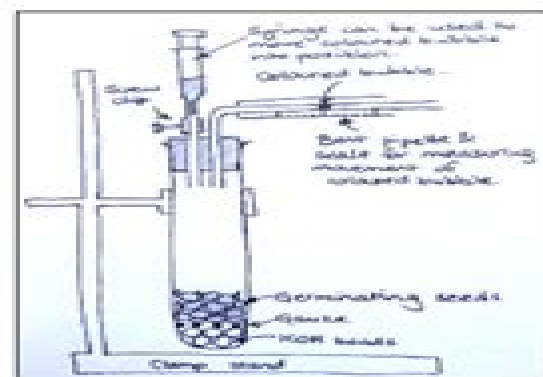
Name: _____

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Part A: Experimental Design (11 marks)

A respirometer is a set up that can be used to measure the amount of oxygen consumed by an organism during cellular respiration and so can be used to measure respiration rate. A simple respirometer is shown in the diagram. The carbon dioxide produced during respiration is absorbed by the potassium hydroxide (KOH). As the oxygen is used up, the coloured bubble in the glass tube moves. Measuring the movement of the bubble allows an estimation of the change in volume of gas and therefore the rate of cellular respiration.

Students examining aerobic respiration set up 5 respirometers, according to the table below.



	Tube A	Tube B	Tube C	Tube D	Tube E
Germinating seeds	0	2	4	8	20
KOH beads	10	10	10	10	10
Starting position of the coloured bubble	10mL	10mL	10mL	10mL	10mL

Question 1

a. What is the independent variable for this experiment? (1 mark)

b. What are three environmental factors that need to be controlled in this experiment? (3 marks)

Qats Biology Sac Unit 3

Michael Brown



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