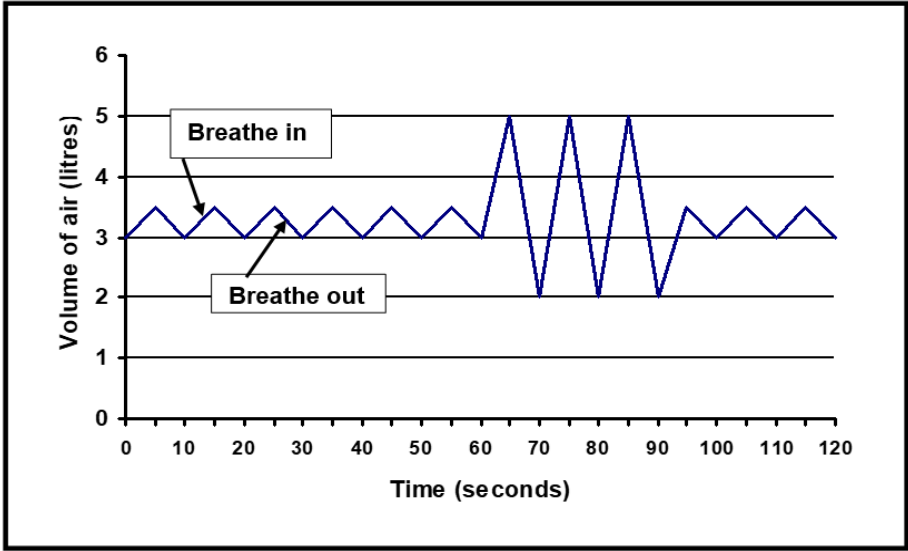


Life Sciences Assessment Framework for Practical 1.2

Grade 11: Gaseous exchange – 25 August 2026

TOPICS	Mark allocation
GASEOUS EXCHANGE	Explain the process of gaseous exchange in the lungs.
Diagrams	Structure of the human respiratory system.
Scientific investigation skills:	• Drawing and interpreting different types of graphs. • Identifying the independent variable, reliability and validity. • Calculations. • Drawing conclusions. • Stating the aim. • Planning investigation steps.
Investigations	Investigation to demonstrate the mechanism of breathing in the classroom. Investigation 9 Apparatus and labels corresponding to the human breathing system
	Measure and compare the depth of breathing of two or more learners and the effect of exercise on breathing/pulse rate. Investigation 10
Interpretation of a spirometer graph (spirogram) showing changes in lung/air volume during breathing over time.	 X-axis: Time (seconds) Y-axis: Volume of air (litres) Small waves: Normal/tidal breathing. Large waves: Deep breathing or forced breathing. Breathe in: Air volume in the lungs increases. Breathe out: Air volume in the lungs decreases.

C. van Heerden

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Date: 17 August 2026