

Access to Higher Education Unit

This unit forms part of an Access to HE Diploma. If delivering the graded version of this unit, please refer to the Provider Handbook for details on grading descriptors and the application of these across units within your programme.

Unit Title: Exchange and Transport of Gases

Graded Unit Reference Number: GA33BIO15

Ungraded Unit Reference Number: UA33BIO15

Module: Biology; Human Biology

Level: Three (3)

Credit Value: Three (3)

Minimum Guided Learning Hours: 30

Learning Outcome (The Learner will):	Assessment Criterion (The Learner can):
1. Understand the structure and function of the respiratory	1.1 Identify structures of the human respiratory system and explain the adaptations for efficient gas exchange
	1.2 Explain the mechanism of breathing including tidal breathing at rest and forced exhalation during exercise
	1.3 Describe the regulation of breathing at rest and in response to exercise
2. Understand the mechanism and control of gaseous exchange	2.1 Explain the adaptations of red blood cells in relation to their role in transporting oxygen
	2.2 Explain how oxygen and carbon dioxide are exchanged in both the lungs and tissues of the body
	2.3 Explain how the rate of breathing is controlled by the nervous system
3. Recognise disorders of the respiratory systems	3.1 Discuss causes, symptoms and treatments of two disorders of the respiratory system