

Access to H.E. National Programme Unit



Unit Title:	The Musculoskeletal System		
Graded Unit Code:	GA33BIO07	Ungraded Unit Code:	UA33BIO07
Pathway(s):	Health Science and Engineering		
Module(s):	Human Biology Biology		
Level:	3	Credit Value:	3
Valid from:	31 st July 2021	Valid to:	31 st July 2026

The following QAA grade descriptors must be applied if you are delivering the graded version of this unit:

1	Understanding of the subject
2	Application of knowledge
5	Communication and presentation
7	Quality

LEARNING OUTCOMES	ASSESSMENT CRITERIA
The learner will:	The learner can:
1. Know the main features of the human skeleton and appreciate the features of different types of joint	1.1 Identify the two major divisions and the main bones of the human skeleton
	1.2 Categorise joints in the human skeleton in terms of degrees of freedom of movement at the joint
	1.3 For a named synovial joint, identify the structures present (including muscles) and outline their functions
2. Understand the significance of the microstructure of bone and cartilage	2.1 Describe the main stages in the ossification of a long bone, including the roles of osteoblasts and osteoclasts

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	2.2	Compare the microstructure of bone and cartilage and link differences in structure to differences in function
3. Understand the structure of skeletal muscle and the physiology of muscle contraction	3.1	Describe the main features of the structure of the cells in striated muscle
	3.2	Explain the roles of neurotransmitter, ions (sodium, potassium and calcium) and ATP in muscle contraction
	3.3	Interpret diagrams illustrating the sliding filament model of muscle contraction