

Yr12 Medical Science – Unit 1

MAGHULL HIGH SCHOOL – CURRICULUM MAP



	Sequence		
TOPIC (S) Musculoskeletal System	1. The Skeleton 2. Muscles	3. Sliding Filament Theory 4. Muscle Fibre types	5. Neuromuscular Junctions 6. Disorders of the Musculoskeletal System
Knowledge & Skills development	<ul style="list-style-type: none"> Recall the structure of the human skeleton including the appendicular skeleton and the axial skeleton and the roles that each has. Be able to describe types of synovial joint and their movement specifically ball and socket joints and Hinge Joints Be able to describe muscle contractions using sliding filament theory 	<ul style="list-style-type: none"> Be able to describe different muscle types and link their different roles with how each respire Describe the structure of a neuromuscular junction and compare it to a synapse Describe the symptoms and treatments of a variety of disorders affecting the musculoskeletal system including Osteoporosis, Osteoarthritis, Duchenes Muscular Dystrophy and Myasthenia Gravis 	
Assessment / Feedback Opportunities	Formative Assessment Teacher questioning Quizzes Exam style questions	Summative assessment Half Termly Assessments Mock Exams	
Personal Development (Including British Values, RSE, Citizenship)	<ul style="list-style-type: none"> Personal Development: Collaborative problem solving Respect and Tolerance: conflict of interest and other concepts with regards to ethical issues in Biology Healthy Lifestyles: Having an understanding of the effects of drugs 		
Reading opportunities	Subject specific vocabulary introduced before reading of related texts Word etymology from Latin and Greek roots Reading of simple and complex sentences, paragraphs, articles Scientific writing		
Key Vocabulary	Independent Variable, Dependent Variable, Control Variables, Method, Conclusion, Precaution, Evaluation, Reliable, Precision, Valid, Anomaly, Describe, Explain, Compare, Analyse, Calculate, Suggest, Absolute, Uncertainty, Error, Actin Myosin, Sarcomere, Axial, Appendicular,		
Cross-Curricular Links	Sport – Human anatomy involving the structure and role of the musculoskeletal system Health and Social Care – Understanding how disorders impact everyday life,		
Career Opportunities	Forensics, , Archaeology, Biological Scientists, Microbiology, Biochemistry, Medicine, Pathology, Nursing, Health Visitor, Health Care Assistant, Paramedic, Radiologist		