Year 12 BTEC
Extended Certificate

MAGHULL HIGH SCHOOL – CURRICULUM MAP

HALF TERM 2 JAN - FEB	**Teacher A Lesson 1-12**	**Teacher B Lesson 1-12**	**Teacher C Lesson 1-12**
TOPIC (S) UNIT 1 Externally assessed unit	Objective: **A1 Structure of skeletal system** Identification of major bones. Type of bone Identification of areas of the skeleton The process of bone growth The function of the skeletal system linked to sporting actions and exercises The main functions of bone types Understanding how joints of the skeleton are used in sporting technique and actions The structure and functions of synovial joints Movement types at synovial joints The responses of the skeletal system to a single sport or exercise session Adaptations of the skeletal system Additional factors affecting the skeletal system - diseases and age related problems.	**Objective:** A2 Structure and functions of the respiratory system Pupils will learn about the components of the respiratory system – nasal cavity, pharynx, larynx, trachea, epiglottis, lungs, bronchi, bronchioles alveoli diaphragm thoracic cavity. Understanding of the mechanisms of breathing – inspiration and expiration. Understanding of the control of breathing – neural control and chemical control. Understanding of gaseous exchange. Tidal volumes. Understanding of the responses of the respiratory system to a single sport or exercise session and adaptations of the respiratory system to exercise. Additional factors affecting the respiratory system	**Objective: A4 The effects of exercise and sports performance on the energy systems** Students will learn the role of adenosine triphosphate (ATP) for muscle contraction for exercise and sports performance. They need to know the immediate accessible form of energy for exercise and the breakdown and resynthesis of ATP for muscle contraction. Students will learn the ATP-PC (alactic) system in exercise and sports performance. Understand the role of the ATP-PC system in energy production for exercise and sports performance. Students will learn the lactate systems role in exercise and sports performance. They will understand the role of the lactate system in energy production for exercise and sports performance.
Knowledge & Skills development	Demonstrate knowledge of the body systems, structures, functions, characteristics, definitions Demonstrate understanding of the short and long term effects of sport and exercise on each system Be able to analyse exercise and sports movements Be able to evaluate how body systems are used and how they interrelate in order to carry out exercise and sporting movement Be able to make connections between body systems in response to short-term and long-term exercise and sports participation Be able to answer exam style questions using correct technical language.		
Assessment / Feedback Opportunities	Teacher Formative Assessment – verbal Peer Assessment – verbal and written Self Assessment - written Teacher Summative Assessment		
Cultural Capital	Access to human anatomy laboratories at Edge Hill University		

SMSC / Promoting British Values (Democracy, Liberty, Rule of Law, Tolerance & Respect)	Listening to others Responding suitably in discussions Taking part in group activities		
Reading opportunities	BTEC National Sport student Book 1		
Key Vocabulary	cranium, clavicle, ribs, sternum, scapula, humerus, radius, ulna, carpals, metacarpals, phalanges, pelvis, vertebral column (cervical, thoracic, lumbar, sacrum, coccyx), femur, patella, tibia, fibula, tarsals, metatarsals. axial skeleton, appendicular skeleton, neutral spine, postural deviations (kyphosis, scoliosis). fibrous (fixed), cartilaginous (slightly moveable), synovial (freely moveable) ball and socket, condyloid, gliding, saddle, hinge, pivot, joint capsule, bursa, articular cartilage, synovial membrane, synovial fluid, ligaments flexion, extension, dorsiflexion, plantarflexion, lateral flexion, horizontal flexion and horizontal extension, hyperextension, abduction, adduction, horizontal abduction and adduction, rotation, circumduction arthritis, osteoporosis Explain, Discuss, State, Analyse, Identify		Adenosine triphosphate, adenosine diphosphate, aerobic, anaerobic, lactate, glycolysis, intensity, duration, glycogen, glucose, lactic acid, Krebs cycle, electron transport chain, mitochondria, pyruvic, hydrogen, creatine, phosphate creatine, enzyme, hypoglycaemic, insulin, oxidisation
Digital Literacy	https://qualifications.pearson.com/en/qualifications/btec-nationals/sport-2016.html		
Careers	Physiotherapist, Sports Therapist, Doctor, Nurse, Occupational Therapist		