Торіс	Rationale	Knowledge acquisition	Key vocabulary	Skills and enrichment
Component 01 Physiological	To acquire knowledge of the	Joints, movements and muscles	Bones, joints, Ligament,, Tendons, Muscles	
factors affecting performance:	science behind physical	Functional roles of muscles and type of	Agonist, antagonist, fixator, isotonic, concentric, eccentric,	
1.1a Skeletal and muscular	activity including the	contraction	isometric,	
systems	structure and function of key systems in the human body,	Analysis of movement	Joint type, movement, agonist and antagonist muscles, muscle contraction	
	the forces that act upon us and	Skeletal muscle contraction	Motor neuron, action potential, neurotransmitter, 'all or none' law	
		Muscle contraction during exercise of differing intensities and during recovery	Slow oxidative, fast oxidative glycolytic, fast glycolytic	
Component 02 Psychological factors affecting performance: 2.1 Skill acquisition	To acquire knowledge of the underlying psychological factors that influence our performance by applying	Classification of skills	Difficulty (simple/complex) , environmental influence (open/closed), pacing (self-paced/externally paced), muscular involvement (gross/fine), continuity (discrete, serial & continuous), organisation (low/high)	
	theories to practical examples.	Types and methods of practice	part practice, whole practice, whole/part-whole practice, progressive/part practice, massed practice, distributed practice, fixed practice, varied practice	
		Transfer of skills	Positive, negative, proactive, retroactive, bilateral	
		Principles and theories of learning movement skills	operant conditioning, cognitive theory of learning, Bandura's theory of social/observational learning	
		Stages of learning	Cognitive, associative, autonomous.	
		Guidance & feedback	verbal guidance, visual guidance, manual guidance, mechanical guidance, intrinsic, extrinsic, positive, negative, knowledge of performance, knowledge of results	
Component 01 Physiological factors affecting performance:	To acquire knowledge of the science behind physical	Cardiovascular system at rest	Heart rate, stroke volume, cardiac output, Cardiac cycle, diastole, systole	
1.1b Cardiovascular and respiratory systems	activity including the structure and function of key systems in the human body	Cardiovascular system during exercise of differing intensities and during recovery		
		Respiratory system at rest	Tidal volume, minute ventilation, alveoli, external intercostal,	

Торіс	Rationale	Knowledge acquisition	Key vocabulary	Skills and enrichment
		Respiratory system during exercise of differing intensities and during recovery	-	
Component 02 Psychological factors affecting performance:	To acquire knowledge of the underlying psychological	Personality	trait – extroversion/introversion, stable/unstable, type a/type b , social learning – interactionist	
2.2 Sports psychology	factors that influence our performance by applying	Attitudes	cognitive, affective, behavioural, persuasive communication, cognitive dissonance	
	theories to practical	Motivation	Intrinsic, extrinsic	
	examples.	Arousal	drive theory , inverted U theory, catastrophe theory	
		Anxiety	State, trait, somatic, cognitive, optimal functioning	
		Aggression	Instinct, social learning, frustration-aggression hypothesis, aggressive cue hypothesis	
		Social Facilitation	introverts/extroverts, beginners/experts, simple/complex skills, gross/fine skills	
		Group and Team Dynamics in sport	Forming, storming, norming, performing, Steiner's model of group effectiveness, Ringelmann effect and social loafing.	
		Goal setting in sports performance	Persistence, SMART	
Component 01 Physiological factors affecting performance: 1.2a Diet and nutrition and	To acquire knowledge of the science behind physical activity including the	Diet and nutrition	Components of a balanced diet, Energy balance	
their effect on physical activity and performance	adaptations we make to our bodies through diet	Ergogenic aid	Pharmacological aids, Physiological aids, nutritional aids	
Component 01 Physiological	To acquire knowledge of the	Aerobic training	VO2 Max, HIIT, Direct gas analysis , physiological adaptations	
factors affecting performance:	science behind physical	Strength training	Explosive, static, dynamic, fibre type, cross sectional area,	
1.2b Preparation and training	activity including the		physiological adaptations	
methods in relation to improving and maintaining	adaptations we make to our bodies through training	Flexibility training	Proprioceptive neuromuscular facilitation (PNF), ballistic, physiological adaptations	
physical activity and performance	regimes	Periodisation of training	Periodisation, macrocycle, mesocycle, microcycle, preparatory, competitive, transition	

Торіс	Rationale	Knowledge acquisition	Key vocabulary	Skills and enrichment
		Impact of training on lifestyle disease	Cardiovascular, respiratory, chronic obstructive pulmonary disease	
Component 01 Physiological	factors affecting performance:sciencebehindphysical1.3a Biomechanical principles,activity including the forceslevers,andtheuseofthat act upon us and	Biomechanical principles	Newton's Laws, Force	
		Levers	Load, Fulcrum, effort arm, load arm, class	
		Analysing movement through the use of technology	Limb kinematics, force plates, wind tunnels	
Component 03 Content of socio-cultural issues in	To acquire knowledge of how physical activity and	Emergence and evolution of modern sport	Social and cultural factors, amateurism and professionalism, gender, 20 <sup>th</sup> Century	
physical activity and sport: 3.1	sport have developed	Sport in 21 <sup>st</sup> Century	Globalisation of sport	
	through time and the factors that shape contemporary sport	Global sporting events	Modern Olympic Games, Political exploitation	
Component 04 Performance in physical activity – Evaluation and Analysis of Performance for Improvement (EAPI)	Applying knowledge from sport and all theory components to analyse and improve sporting	Analysis of sporting performance in relation to strengths and weaknesses and evaluation of overall success of performance	Skills, tactics, fitness	
	performance in a chosen activity.	Identification and justification of a priority weakness to improve sports performance	Limitations affecting performance in relation to fitness, skill or tactic.	
		Design and implementation of development plan	Progressive practices, coaching points, adaptions	
		Evaluation and reflection of sports	Adenosine Triphosphate and energy systems	
		performance and development plan	Adenosine Triphosphate and energy systems	
Component 01 Physiological factors affecting performance:	To acquire knowledge of the science behind physical	Adenosine Triphosphate and energy systems	Adenosine Triphosphate, coupled reaction, Adenosine diphosphate	
1.1c Energy for Exercise	activity including the	Energy systems and ATP resythnesis	ATP-PC, Glycolytic, Aerobic, enzyme, yield, by-products	
	structure and function of key systems in the human body	ATP resynthesis during exercise of differing intensities and durations	Energy continuum, intensity, duration, interplay, intermittent	

Торіс	Rationale	Knowledge acquisition	Key vocabulary	Skills and enrichment
		The recovery process	Excess post exercise Oxygen Consumption (EPOC),	
Component 02 Psychological	To acquire knowledge of the	Memory models		
factors affecting performance:	underlying psychological	Attribution	Weiner's model of attribution	
2.1 Skill acquisition: 2.2 Sports	factors that influence our	Confidence and self-efficacy in sports	Vealey's model of sports confidence, Bandura's theory of self-	
psychology	performance by applying	performance	efficacy	
	theories to practical	Leadership in sport	Emergent or prescribed leaders, styles, theories of leadership,	
	examples.		Chelladurai's multi-dimensional model of sports leadership.	
		Stress management to optimise	Cognitive stress management techniques, somatic stress	
		performance	management techniques	
Component 01 Physiological factors affecting performance:	To acquire knowledge of the science behind physical	Exercise at altitude	Partial pressure, acclimatisation, altitude,	
1.1d Environmental effects on body systems	activity including the structure and function of key systems in the human body	Exercise in heat	Cardiovascular drift	
Component 01 Physiological	To acquire knowledge of the	Acute and chronic injuries	Acute, chronic,	
factors affecting performance:	science behind physical	Injury prevention	Intrinsic, extrinsic	
2.1c injury prevention and rehabilitation of injury	activity including the adaptations we make to our	Responding to injuries and medical conditions in a sporting context	SALTAPS, PRICE, Recognise and Remove, 6 R's	
	bodies through training regimes	Rehabilitation of injury	Contrast therapies	
Component 03 Content of	To acquire knowledge of	Ethics and deviance in sport	Drugs, doping, violence, gambling	
socio-cultural issues in physical activity and sport	how physical activity and sport have developed	Commercialisation and media	Spectatorship, media interest, professionalism, advertising, sponsorship, golden triangle	
3.2 Contemporary issues in physical activity and sport	through time and the factors that shape contemporary	Routes into sporting excellence in the UK	UK Sport, National Institutes,	
	sport	Modern technology in sport	Elite participation, General Participation, Fair outcomes, Entertainment	
Component 01 Physiological	To acquire knowledge of the	Linear motion	Quantities of linear motion, distance, displacement, speed,	
factors affecting performance:	science behind physical		velocity	

Торіс	Rationale	Knowledge acquisition	Key vocabulary	Skills and enrichment
1.3b Linear motion, angular motion, fluid mechanics and	activity including the forces that act upon us and	Angular motion	Axes, longitudinal, frontal, transverse, moment of inertia, angular velocity, angular momentum, distribution of mass,	ennennent
projectile motion			conservation of angular momentum, Newton's analogues	
		Fluid mechanics	Air resistance, drag, frontal-cross sectional area, streamlining	
		Projectile motion	Parabolic, non-parabolic, Bernoulli's principle, Magnus Force	
Component 04 Performance in	Applying knowledge from	Analysis of sporting performance in	Skills, tactics, fitness	
physical activity – Evaluation	sport and all theory	relation to strengths and weaknesses		
and Analysis of Performance	components to analyse and	and evaluation of overall success of		
for Improvement (EAPI)	improve sporting	performance		
	performance in a chosen	Identification and justification of a		
	activity	priority weakness to improve sports	tactic.	
		performance		
		Design and implementation of development plan	Progressive practices, coaching points, adaptions	
		Evaluation and reflection of sports	Physiological, psychological and socio-cultural issues in	
		performance and development plan	physical activity and sport affecting performance	