

AQA A Level PE

Paper 1			R	A	G
Paper 1	I understand the characteristics and impact on sporting recreation during the pre-industrial era (pre 1780).				
	I understand the characteristics of mob football, real tennis and Much Wenlock Olympic Games.				
	I understand the characteristics of popular and rational recreation linked to the two-tier class system. Upper and lower.				
	I understand the characteristics and impact on sporting recreation during the Industrial and post-industrial era (1780–1900).				
	I understand the characteristics and impact on sport (limited to development of association football, lawn tennis and rationalisation of track and field events).				
	I understand how the Industrial Revolution affected the development of rational recreation.				
	I understand how Urbanisation affected the development of rational recreation.				
	I understand how the development of transport and communication affected the development of rational recreation.				
	I understand how The British Empire helped to spread rational recreation around the world.				
	I understand how factories increased provision of rational recreation and sport.				
	I understand how Churches and local authorities increased provision of rational recreation and sport.				
	I understand the Three-tier class system (emphasis on middle class and working class).				
	I understand how the development of national governing bodies affected the development of rational recreation and sport.				
	I understand the characteristics of sport.				
	I understand the changing role of women in sport through the eras.				
	I understand the changing status of amateur and professional performers.				
	I understand the characteristics and impact on sporting recreation Post World War II (1950 to present).				
	I understand the characteristics and impact on sport (limited to development of association football, tennis and athletics) of the Golden triangle – the interrelationship between commercialisation (including sponsorship), media (radio, TV, satellite, internet and social media).				
	I understand the characteristics and impact on sport (limited to development of association football, tennis and athletics) of sports and governing bodies.				
	I can discuss the changing status of amateur and professional performers.				
	I understand the factors affecting the emergence of elite female performers in football (players and officials), tennis and athletics in late 20th and early 21st century.				
	I know the definitions of the following key terms in relation to the study of sport and their impact on equal opportunities in sport and society:				
	• society				
	• socialisation				
	• social processes				
	• social issues				
	• social structures/stratification.				
	I understand the effects of Primary and secondary socialisation.				
	I understand the concepts of Social control and social change.				
	I understand the causes and consequences of inequality. Eg schools/sports clubs.				
	I understand social action theory in relation to social issues in physical activity and sport.				
	I understand the Interactionist approach, impact of sport on society and of society on sport.				
	I know about underrepresented groups in sport.				
	• Disability.				
	• Ethnic group.				
	• Gender.				
	• Disadvantaged.				
	I understand and can define the terms equal opportunities, discrimination, stereotyping and prejudice.				
	I understand the barriers to participation in sport and physical activity and possible solutions to overcome them for underrepresented groups in sport.				
	I know the benefits of raising participation.				
	• Health benefits.				
	• Fitness benefits				
	• Social benefits.				
	I understand the interrelationship between Sport England, local and national partners to increase participation at grass roots level and underrepresented groups in sport.				
	I understand of the impact of physical activity and sport on the health and fitness of the individual.				
	I have an understanding of factors of Health (heart disease, high blood pressure, effects of cholesterol, stroke).				
	I have an understanding of Fitness (cardiac output – trained and untrained individuals, maximal and sub-maximal exercise).				
	I understand the hormonal, neural and chemical regulation of responses during physical activity and sport.				
	I understand the concept of Anticipatory rise.				
	I understand the Redistribution of blood (vascular shunting, vasoconstriction, vasodilation).				
	I understand the Cardiac conduction system.				
	I understand the Sympathetic and parasympathetic nervous systems.				
	I understand the effects of Carbon dioxide.				

Paper 1			
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I understand the role of Receptors involved in regulation of responses during physical activity. (Chemoreceptor, proprioceptor, baroreceptor.)			
I understand the Transportation of oxygen and the role of Haemoglobin and Myoglobin.			
I understand the Oxyhaemoglobin disassociation curve and the Bohr shift.			
I understand the Venous return mechanisms.			
I understand the Relationship with blood pressure (systolic, diastolic).			
I understand Starling's law of the heart.			
I understand Cardiovascular drift.			
I understand Arterio-venous oxygen difference (A-VO ₂ diff) and the variations in response to an exercise session.			
I understand variations between trained and untrained individuals.			
I know the adaptations to body systems resulting from training			
I have an understanding of lung volumes and the impact of and on physical activity and sport. (Residual volume, Expiratory reserve volume, Inspiratory reserve volume, Tidal volume, Minute Ventilation.)			
I understand Gas exchange systems at alveoli and muscles in terms of Oxygen and carbon dioxide.			
I understand Principles of diffusion and partial pressures.			
I understand the hormonal, neural and chemical regulation of pulmonary ventilation during physical activity and sport.			
I know the impact of Adrenaline and its use within the Sympathetic and parasympathetic nervous systems.			
I understand the role of Carbon dioxide.			
I know the receptors involved in regulation of pulmonary ventilation during physical activity. (Chemoreceptor, proprioceptor, baroreceptor.)			
I understand the impact of poor lifestyle choices on the respiratory system. (Smoking and oxygen transport).			
I understand the characteristics and functions of different muscle fibre types for a variety of sporting activities.			
• Slow twitch (type I).			
• Fast glycolytic (type IIx).			
• Fast oxidative glycolytic (type IIA).			
I have an understanding of the Nervous system. (Sympathetic and parasympathetic.)			
I understand the Role of proprioceptors in PNF (Muscle spindles, Golgi tendon organs)			
I understand the recruitment of muscle fibres and how the strength of muscular contractions can be varied through:			
• Motor units.			
• Spatial summation.			
• Wave summation.			
• All or none law.			
• Tetanic contractions.			
I know and can apply Joint actions in the sagittal plane/transverse axis.			
• Shoulder and hip (flexion, extension and hyperextension).			
• Elbow and knee (flexion and extension).			
• Ankle (plantar flexion and dorsiflexion).			
I know and can apply Joint actions in the frontal plane/sagittal axis.			
Shoulder and hip (adduction and abduction).			
I know and can apply Joint actions in the transverse plane/longitudinal axis.			
Shoulder and hip (horizontal abduction and adduction).			
I know the types of joint, articulating bones, main agonists and antagonists, types of muscle contraction.			
Isotonic (concentric and eccentric) and isometric.			
I understand the concept of Energy transfer in the body.			
I understand the Aerobic energy system (glycolysis, Krebs/citric acid cycle, beta oxidation, electron transport chain) and can draw this process as a diagram.			
I understand the Anaerobic energy systems (ATP-PC system, anaerobic glycolytic system), and can draw these in a diagram.			
I understand the Energy continuum of physical activity. Consideration for physical activity and sport of different intensities and durations.			
I know the differences in ATP generation between fast and slow twitch muscle fibre.			
I understand Energy transfer during short duration/high intensity exercise.			
I understand the Anaerobic energy system.			
I understand the ATP-PC system.			
I understand the Short term lactate anaerobic system (lactate accumulation, lactate threshold, OBLA, lactate producing capacity and sprint/power performance).			
I understand Energy transfer during long duration/lower intensity exercise. (Aerobic energy system.)			
I understand Oxygen consumption during exercise (maximal and submaximal oxygen deficit).			
I understand Oxygen consumption during recovery (excess post-exercise oxygen consumption EPOC).			
I know the factors affecting VO ₂ max/aerobic power.			
I have knowledge of the measurements of energy expenditure.			
• Indirect calorimetry.			
• Lactate sampling.			
• VO ₂ max test.			
• Respiratory exchange ratio (RER).			

Paper 1				
	<p>I understand the impact of specialist training methods on energy systems.</p> <ul style="list-style-type: none"> • Altitude training. • High Intensity Interval Training (HIIT). • Plyometrics. • Speed Agility Quickness. <p>I know the characteristics of skill.</p> <p>I can use the skill continua.</p> <ul style="list-style-type: none"> • Open – closed. • Discrete – serial – continuous. • Gross – fine. • Self-paced – externally paced. • High – low. • Simple – complex. <p>I can justify skill placement on each of the continua.</p> <p>I can define different types of Transfer of learning. (Positive, Negative, Zero, Bilateral)</p> <p>I understand how transfer of learning impacts on skill development.</p> <p>I understand and can apply the different methods of presenting practice.</p> <ul style="list-style-type: none"> • Progressive part. • Whole. • Whole–part–whole. • Types of practice. • Massed. • Distributed. • Variable. • Mental practice. <p>I understand how knowledge of skill classification informs practice structure (presentation and type) to allow learning/development of skills.</p> <p>I understand the Stages of learning and how feedback differs between the different stages of learning. (Cognitive, associative, autonomous.) Learning plateau. Causes and solutions.</p> <p>I understand the theories of learning:</p> <ul style="list-style-type: none"> • Cognitive theories. Insight learning (Gestalt). • Behaviourism. Operant conditioning (Skinner). • Social learning. Observational learning (Bandura). • Constructivism. Social development theory (Vygotsky). <p>I understand how theories of learning impact on skill development.</p> <p>I know the different Methods of guidance and can define them:</p> <ul style="list-style-type: none"> • Verbal. • Visual. • Manual. • Mechanical. <p>I understand the different purposes and types of feedback.</p> <ul style="list-style-type: none"> • Knowledge of performance. • Knowledge of results. • Positive and negative. • Intrinsic. • Extrinsic. <p>I understand how feedback and guidance impacts on skill development.</p> <p>I understand information processes and the terms:</p> <ul style="list-style-type: none"> • Input. • Senses. • Receptors. • Proprioception. • Perception. • Selective attention. <p>I understand Decision making and can apply the Baddeley and Hitch, working memory model.</p> <p>I understand the memory system.</p> <p>I understand the Functions and characteristics of components of working memory model.</p> <ul style="list-style-type: none"> • Output. • Feedback. <p>I can apply Whiting's information processing model to a range of sporting contexts.</p>			

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Paper 1	I have an applied understanding of information processing terms within a sporting context. <ul style="list-style-type: none">• Environment.• Display.• Sensory organs.• Perceptual mechanism.• Translatory mechanism.• Effector mechanism.• Muscular system output data.• Feedback data.			
	I know the definitions of and the relationship between reaction time, response time, movement time. <ul style="list-style-type: none">• Simple reaction time.• Choice reaction time.			
	I understand the factors affecting response time. Hick's law.			
	I understand and can apply Psychological refractory period to sporting situations.			
	I understand and can apply Single channel hypothesis to sporting situations.			
	I know definitions of anticipation. (Temporal. Spatial.)			
	I know and can apply strategies to improve response time.			
	I understand and can apply Schmidt's schema theory. (Recall, Recognition, Initial conditions, Response specifications, Sensory consequences, Response outcomes, Parameters).			
	Application of schema theory in sporting situations.			
	I know and can apply strategies to improve information processing. (Input – selective attention decision making process – chunking, chaining, response time, schema).			

Paper 2			
	R	A	G
I know the characteristics and functions of key concepts and how they create the base of the sporting development continuum.			
• Physical recreation.			
• Sport.			
• Physical Education.			
• School Sport.			
The similarities and the differences between these key concepts.			
I understand the personal, social and cultural factors required to support progression from talent identification to elite performance.			
I understand the generic roles, purpose and the relationship between organisations in providing support and progression from talent identification through to elite performance.			
• National governing bodies.			
• National institutes of sport.			
• UK Sport.			
I know the key features of national governing bodies' Whole Sport Plans (WSP).			
I understand the support services provided by national institutes of sport for talent development.			
I understand the key features of UK Sport's World Class Performance Programme, Gold Event Series and Talent Identification and Development. Or equivalent current named programmes.			
I understand concepts of ethics in sport, including Amateurism, the Olympic Oath, sportsmanship, gamesmanship, win ethic. Positive and negative forms of deviance in relation to the performer.			
I know the causes and implications of violence in sport in relation to the performer, spectator and sport.			
Strategies for preventing violence within sport to the performer and spectator.			
I understand the social and psychological reasons behind elite performers using illegal drugs and doping methods to aid performance.			
I know the physiological effects of drugs on the performer and their performance. Erythropoietin (EPO).			
• Anabolic steroids.			
• Beta Blockers.			
I understand the positive and negative implications to the sport and the performer of drug taking.			
I know the Physiological adaptations of taking drugs in sport.			
• Erythropoietin (EPO).			
• Anabolic steroids.			
• Beta Blockers.			
I understand the Social and psychological rewards of taking drugs (for the sport and the performer).			
I understand the negative impact on current and future health of taking drugs.			
I understand the social and psychological repercussions of taking drugs (for the sport and the performer).			
I know strategies for elimination of performance enhancing drugs in sport.			
I understand arguments for and against drug taking and testing.			
I understand the uses of sports legislation from the point of view of the			
• Performers (contracts, injury, loss of earnings).			
• Coaches (duty of care).			
• Officials (negligence).			
• Spectators (safety, hooliganism).			
I understand the positive and negative impact of commercialisation, sponsorship and the media on the			
• Performer.			
• Coach.			
• Audience.			
• Sport.			
• Official.			
I understand the use of technology for sport analytics.			
I understand the use of technology in data collection (quantitative and qualitative, objective and subjective, validity and reliability of data).			
I understand the use of			
• Video and analysis programmes.			
• Testing and recording equipment (metabolic cart for indirect calorimetry).			
• GPS and motion tracking software and hardware.			
I understand maintaining data integrity.			

Paper 2			R	A	G
	<p>I understand functions of sports analytics for</p> <ul style="list-style-type: none"> • Monitoring fitness for performance • Skill and technique development • Injury prevention (vibration, electro stimulation) • Game analysis • Talent • ID/scouting. 				
	<p>I understand the development of equipment and facilities in physical activity and sport, and their impact on participation and performance.</p>				
	<p>I understand the impact of material technology on equipment – adapted (disability, age). Facilities – Olympic legacy, (surfaces, multiuse).</p>				
	<p>I understand the role of technology in sport and its positive and negative impacts on the</p> <ul style="list-style-type: none"> • Sport • Performer • Coach • Audience 				
	<p>I understand the adaptations to the body systems through training or lifestyle, and how these changes affect the efficiency of those systems.</p>				
	<p>I understand the exercise-related function of food classes.</p> <ul style="list-style-type: none"> • Fibre. • Carbohydrate. • Fat (saturated fat, trans fat and cholesterol). • Protein. • Vitamins (C, D, B-12, B-complex). • Minerals (sodium, iron, calcium). • Water (hydration before, during and after physical activity). 				
	<p>I know the positive and negative effects of dietary supplements / manipulation on the performer.</p> <ul style="list-style-type: none"> • Creatine, sodium bicarbonate, caffeine, Glycogen 				
	<p>I know and understand key data terms for laboratory conditions and field tests. Quantitative and qualitative.</p> <ul style="list-style-type: none"> • Objective and subjective. • Validity and reliability. 				
	<p>I know the physiological effects and benefits of a warm-up and cool down.</p>				
	<p>I understand stretching for different types of physical activity (static and ballistic).</p>				
	<p>I know the Principles of training. Specificity, progressive overload, reversibility, recovery, Frequency Intensity Time Type of training (FITT) principles.</p>				
	<p>I can apply the principles of periodisation. Macro cycle, Meso cycle, Micro cycle. Preparation, competition, transition. Tapering, peaking.</p>				
	<p>I understand the Training methods to improve physical fitness and health.</p> <ul style="list-style-type: none"> • Interval training (anaerobic power). • Continuous training (aerobic endurance). • Fartlek (aerobic endurance). • Circuit training (muscular endurance). • Weight training (strength). 				
	<p>I understand Proprioceptive Neuromuscular Facilitation (PNF) (flexibility).</p>				
	<p>I understand types of injury. Acute (fractures, dislocations, strains, sprains). Chronic (Achilles tendonitis, stress fracture, 'tennis elbow').</p>				
	<p>I understand different methods used in injury prevention. Injury prevention methods:</p> <ul style="list-style-type: none"> • Screening. • Protective equipment. Warm up, flexibility training (active, passive, static and ballistic), taping and bracing. 				

Paper 2			
	R	A	G
I understand Injury rehabilitation methods (proprioceptive training, strength training, hyperbaric chambers, cryotherapy, hydrotherapy).			
I understand Recovery from exercise (compression garments, massage/foam rollers, cold therapy, ice bath, cryotherapy).			
I know the physiological reasons for methods used in injury rehabilitation. (Hyperbaric chambers, cryotherapy.)			
I understand the importance of sleep and nutrition for improved recovery			
I understand aspects of personality.			
I understand attitudes.			
I understand the theories of arousal.			
I understand the theories around anxiety.			
I understand the theories of aggression.			
I know the types of motivation.			
I understand achievement motivation theory.			
I understand social facilitation and inhibition.			
I understand the theories of group dynamics.			
I understand Newton's three laws of linear motion applied to sporting movements.			
I can define Force, Speed, distance, Centre of mass and know equations and units of example scalars.			
I understand factors affecting stability including height of centre of mass, area of base of support, position of line of gravity and body mass.			
I understand the three classes of lever and examples of their use in the body during physical activity and sport.			
I understand the mechanical advantage and mechanical disadvantage of each class of lever.			
I have an understanding of the forces acting on a performer during linear motion.			
Gravity, frictional force, air resistance, internal muscular force, weight.			
I know definitions, equations and units of vectors and scalars for			
Mass, weight, speed, velocity, distance, displacement, acceleration and momentum.			
I understand the relationship between impulse and increasing and decreasing momentum in sprinting through the interpretation of force/time graphs.			
I can apply Newton's laws to angular motion.			
I know definitions and units for angular motion. Angular displacement, angular velocity, angular acceleration.			
I understand conservation of angular momentum during flight, moment of inertia and its relationship with angular velocity.			
I understand the factors affecting horizontal displacement of projectiles and factors affecting flight paths of different projectiles. (Shot put, badminton shuttle).			
I know Vector components of parabolic flight.			
I understand Dynamic fluid force. Drag and lift.			
I understand factors that reduce and increase drag and their application to sporting situations.			
• The Bernoulli principle applied to sporting situations.			
• Upward lift force (discus).			
• Downward lift force (speed skiers, cyclists, racing cars).			
I understand the importance of goal setting.			
I understand attribution theory.			
I understand the concepts of self-efficacy and confidence, and the associated theories.			
I know the different styles of leadership and the characteristics of an effective leader.			
I know and can apply a range of stress management techniques.			

Paper 2