#### A Level Physical Education- Y12 & 13

**Exam Board: AQA** 

**Course Information Exam Board Website link:** 

https://www.aqa.org.uk/subjects/physical-education/a-level/physical-education-7582/specification-at-a-glance

#### **Exam Info:**

### Paper 1: Factors affecting participation in physical activity and sport

What's assessed

- Section A: Applied anatomy and physiology
- Section B: Skill acquisition
- Section C: Sport and society

How it's assessed

- Written exam: 2 hours
- 105 marks
- 35% of A-level

### Paper 2: Factors affecting optimal performance in physical activity and sport

What's assessed

- Section A: Exercise physiology and biomechanics
- Section B: Sport psychology
- Section C: Sport and society and technology in sport

How it's assessed

- Written exam: 2 hours
- 105 marks
- 35% of A-level

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### Non- exam assessment: Practical performance in physical activity and sport

What's assessed

- Students assessed as a performer or coach in the full sided version of one activity. Plus:
- written/verbal analysis of performance.

How it's assessed

- Internal assessment, external moderation
- 90 marks
- 30% of A-level

**Head of Department:** Miss Stephanie Cox

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### **Homework Expectations:**

1 piece of homework per week, per unit.

# **Long Term Plan**

### **Year 12 Section 1- Applied Anatomy and Physiology and Exercise Physiology**

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
The cardiovascular system	The Neuromuscular System	Energy Systems	Diet and Nutrition and their effect on physical activity and	Injury prevention and the rehabilitation of injury.	
The respiratory System	The Muscular Skeletal system and analysis of		performance		
	movement in physical activities		Preparation and training methods in relation to maintaining physical activity and performance.	Revision	
Cardiorespiratory topic assessment.	Cardiorespiratory, Neuromuscular, muscular skeletal and movement analysis topic assessment	Paper 1 practice assessment.	End of section assessment	Paper 1 and Exercise Physiology section of Paper 2 assessment.	NEA work- Completion of coursework.  Practical footage required prior to this term.
Critical Key Vocabulary:	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary
Llookh	Plane, Axis	ATP	Carbohydrate.	Acute Chronic	
Health Fitness	Sagittal Plane	The ATP-PC System	Fibre.		
Anticipatory Rise	Transverse Axis Frontal Plane	The Lactic Acid System, Anaerobic	Fat (saturated fat, trans fat and	Proprioceptive training Strength Training	

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Vascular Shunt	Sagittal axis	Glycolytic system	cholesterol), protein,	Hyperbaric Chambers	
Vasoconstriction	Transverse Plan		vitamins (C,D, B-12,	Cryotherapy	
Vasodilation	Longitudinal Axis	The Aerobic System	B-complex), minerals	Hydrotherapy	
Cardiac Conduction	Flexion	Intensity and	(sodium, iron,	' ' '	
	Extension	Duration	calcium), water	Compression garments	
System	Hyperextension	The Energy	(hydration before,	Massage/foam roller	
	Abduction	Continuum	during and after	Ice Bath	
Chemoreceptor	Adduction	The Recovery Process	physical activity).		
Proprioceptor	Horizontal Abduction	Glycogen	' '		
Baroreceptor	Horizontal Adduction	Glucose	Creatine		
			Sodium bicarbonate		
Haemoglobin	Isotonic Concentric	EPOC	Caffeine		
Oxyhaemoglobin	Isotonic Eccentric		Glycogen loading		
Oxyhaemoglobin	Isometric				
Dissociation Curve			Quantitative and		
	Slow twitch (type I).		qualitative.		
Bohr Shift					
	Fast glycolytic (type llx).		Objective and		
Systolic			subjective.		
Diastolic	Fast oxidative glycolytic		., ., .,		
	(type lla).		Validity and reliability.		
CardioVascular Drift					
	Sympathetic and		Static and Ballistic		
Arteriovenous Oxygen	parasympathetic.		Stretching		
Difference	NA. sala assisadla a		Coorificity		
	Muscle spindles.		Specificity Overland		
Residual volume.	Golgi tendon organ.		Progressive Overload Reversibility		
Residual volullie.			Recovery		
Expiratory reserve	Motor Units		Recovery		
volume.	Spatial Summation		Frequency		
	Wave Summation		Intensity		
Inspiratory reserve	All or None Law		Time		
	1 21 20		Time		

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volume.	Tetanic	Туре	
Tidal volume.  Minute Ventilation.		Macro Cycle, Meso Cycle, Micro Cycle	
		Proprioceptive Neuromuscular Facilitation (PNF).	

#### Year 12 Core Knowledge

#### Paper 1 content

Health and Fitness

Hormonal, neural and chemical regulation of Heart rate

Transportation of Oxygen

Venous return and Starling's Law

Cardiovascular Drift

Arterio-venous Oxygen Difference

Lung Volumes and Gaseous exchange sites.

Neural and chemical regulation of pulmonary ventilation

Impact of poor lifestyle choices.

Muscle fibre types

Nervous System

PNF

Recruitment of muscle fibres

Joint actions in planes and axis

Joint types, articulating bones, antagonistic pairs and muscle contractions.

Energy systems

Energy transfer in varying intensities and durations of exercise

Factors affecting VO2Max

Measurements of energy expenditure

Impact of specialist training methods on energy systems.

	Paper 2 content Exercise- related functions of food classes Evaluate effects of dietary supplements and manipulation Field testing and Laboratory conditions Warm up and Cool downs Principles of training Periodisation Training methods Types of injury Injury prevention
Year 12 Core Skills	Evaluation Analysis Application Independent Study Writing

# Year 12- Skill Acquisition

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Skill, skill continuums and transfer of skills	Principles and theories of learning and performance	Principles and theories of learning and performance	Memory models	Efficiency of information processing	Efficiency of information processing
Impact of skill classification on structure of practice for learning		Use of guidance and feedback		Paper 1 and Exercise	
End of section assessment	End of section assessment	Paper 1 practice assessment.	End of section assessment	Physiology section of Paper 2 assessment.	End of section assessment
Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary Stages of learning:	Critical Key Vocabulary	Critical Key Vocabulary Environment	Critical Key Vocabulary
skill continua	Stages of learning:	- Cognitive	Senses		D: 1
Transfer of learning:	- Cognitive - associative	- associative - autonomous	Receptors	Display	Display
Positive	- autonomous	Learning plateau	Proprioception	Sensory organs	Sensory organs
Negative	Learning plateau	Insight learning	Perception	Perceptual mechanism	Perceptual mechanism
Zero	Insight learning	Behaviourism	DCR process	Translatory mechanism	Translatory mechanism
Bilateral	Behaviourism			Effector mechanism	Effector mechanism
Methods of practice:	Operant conditioning	Operant conditioning  Social Learning	Selective attention  Baddeley and Hitch,	Muscular system output data	Muscular system output data
Whole.	Social Learning	Observational learning	working memory model	Feedback data	Feedback data

Progressive part.	Observational learning	Constructivism	Cimple reaction time	Cimple reaction time
Whole–part–whole.	Constructivism	Constructivism	Simple reaction time	Simple reaction time
Whole part whole.	Constructivisin	Social development	Choice reaction time	Choice reaction time
Types of practice:	Social development	theory	Choice reaction time	Choice reaction time
	theory		Hick's law.	Hick's law.
Massed		Methods of guidance:		
Distributed		- Verbal	Psychological refractory	Psychological refractory
Distributed		- Visual	period.	period.
Variable		- Manual		
		- Mechanical	Single channel	Single channel
Mental practice		Types of feedback:	hypothesis.	hypothesis.
		- Knowledge of	Anticipation:	Anticipation:
		performance	Temporal.	Temporal.
		- Knowledge of results		,p
		- Positive and negative	Spatial.	Spatial.
		- Intrinsic		
		- Extrinsic	Recall.	Recall.
			,	
			Recognition.	Recognition.
			Initial conditions.	Initial conditions.
			initial conditions.	initial conditions.
			Response	Response
			specifications.	specifications.
			Sensory consequences.	Sensory consequences.
			Dognongo ovitas assa	Dognongo outtouros
			Response outcomes.	Response outcomes.
			Decision making	Decision making
			process:	process:
			1	1

	- Chunking - Chaining - Response time - Chema	- Chunking - Chaining - Response time - Chema.	
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Year 12 Core Knowledge	Characteristics of skill. Use of skill continua. Transfer of learning. Methods of presenting practice. Types of practice. Stages of learning Learning plateau. Insight learning (Gestalt). Behaviourism. Operant conditioning (Skinner). Social learning. Observational learning (Bandura). Constructivism. Social development theory (Vygotsky). Methods of guidance Types of feedback Information processing model Schmidt's schema theory
Year 12 Core Skills	Evaluation Analysis Application Independent Study Writing

# **Year 12- Sport and Society (PS to complete)**

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Pre-Industrial Britain Industrial & Post-Industrial Britain	Industrial & Post-Industrial Britain Post World War II	Post World War II	Sociological Theory Applied to Equal Opportunities	Sociological Theory Applied to Equal Opportunities	Sociological Theory Applied to Equal Opportunities
Pre & post assessment	Pre & post Industrial				
	Britain, Post World War Il assessment	Pre & post Industrial Britain, Post World War II assessment	Pre & post Industrial Britain, Post World War II, Society, Socialisation, issues, structures assessment	Pre & post Industrial Britain, Post World War II, Society, Socialisation, issues, structures, Under represented groups assessment	End of year 12 assessment
Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary
Feudal System Aristocracy Mob football Rural	Churches and local authorities.  Public schools/universities national governing	Commercialisation  Media  Sport  Sponsorship	Society Socialisation Social processes Social issues	Discrimination Stereotyping Prejudice Barriers	Health benefits. Fitness benefits. Social benefits Sport England
Real Tennis	bodies.	Female	Social structures/stratification	Solutions	Local national partners

Revolution	amateur	Players	Disability	Under-represented	Grass roots
Urbanisation	professionals	Officials	Ethnic group.	groups	
Transport and communication.	Church		Gender.		
The British Empire.	Association Football		Disadvantaged		
Provision through	Lawn Tennis				
factories.	Athletics				

Year 12 Core Knowledge	Pre-Industrial Britain Industrial & Post-Industrial Britain Post World War II Sociological Theory Applied to Equal Opportunities
Year 12 Core Skills	Evaluation Analysis Application Independent Study Writing

#### **Year 13- Biomechanical Movement**

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Mock assessment full Paper 1 and partial Paper 2 content  NEA Practical performance and coursework completion	Biomechanical principles and levers Linear Motion Angular Motion  End of topic assessment	Projectile Motion Fluid Mechanics  Mock Assessments Full Paper 1 and Paper 2.  NEA Practical performance and coursework completion (final deadline for changes).	Moderation Period Revision	Revision	Study Leave
Critical Key Vocabulary	Critical Key Vocabulary Inertia Acceleration Action/reaction  Speed, Distance Centre of mass Base support Gravity Body Mass  Mechanical Advantage Lever  Gravity Frictional force	Critical Key Vocabulary  Horizontal displacement Projectiles Vector Parabolic flight  Drag The Bernoulli Principle	Critical Key Vocabulary As previous	Critical Key Vocabulary	Critical Key Vocabulary

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Air resistance Internal muscular force		
Weight Velocity Displacement Acceleration Momentum		
Mass Speed Distance		
Angular Displacement Angular Velocity Angular Acceleration		

#### Year 13 Core Knowledge

Newton's Laws

Definitions, equations and units of example scalars

Centre of Mass

Factors affecting stability

Lever classes and mechanical advantages/disadvantages

Forces acting during linear motion

Definitions, equations and units of example vectors

Definitions, equations and units of example scalars

Relationship between impulse and increasing and decreasing momentum

Newton's laws to angular motion

Definitions and units for angular motion

Conservation of angular momentum during flight, moment of inertia and angular velocity.

Factors affecting horizontal displacement of projectiles

Factors affecting flight paths

	Vector components of parabolic flight Dynamic fluid force Factors that reduce and increase drag The Bernoulli principle applied to sporting situations.
Year 13 Core Skills	Evaluation Analysis Application Independent Study Writing

# **Year 13- Sport Psychology**

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Aspects of personality	Anxiety	Social facilitation	Attribution theory	Revision	Study Leave
Attitudes Arousal	Aggression  Motivation  Achievement motivation theory	Group dynamics Importance of goal setting	Self-efficacy and confidence Leadership Stress Management		
Mock assessment full Paper 1 and partial Paper 2 content		Mock Assessments Full Paper 1 and Paper 2.			
Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary
Nature vs Nurture Trait	Types of Anxiety: - Somatic - cognitive	Social facilitation and inhibition: - Zajonc's model	Attribution process. Weiner's Model		
social learning Interactionist perspective	- competitive trait - competitive state  Aggression: - Instinct theory	Evaluation apprehension  Group formation	Self-serving bias. Attribution retraining.		
Triadic model	- Frustration-aggression - Hypothesis	Tuckman's model	Learned helplessness.		
Theories of arousal:	- Social learning theory - Aggressive cue theory	Cohesion:	Characteristics of self-efficacy,		
- Drive theory	Motivation:	- Task and social	self-confidence and self-esteem.		

<ul> <li>- inverted U theory</li> <li>- catastrophe theory</li> <li>-zone of optimal functioning theory.</li> <li>Characteristics of peak</li> </ul>	- Intrinsic - Extrinsic - tangible - intangible  Atkinson's Model of achievement motivation.	Steiner's model of potential and actual productivity, faulty group processes  Ringelmann effect and social loafing	Bandura's Model of self-efficacy.  Vealey's Model of self-confidence.  Characteristics of	
flow experience	Achievement goal theory	- Outcome goals - Performance related goals - Process goals.  Goal setting- SMARTER	effective leaders.  Styles of leadership:  - Autocratic - Democratic - Laissez-faire.  Prescribed and emergent leaders.  Fiedler's contingency theory  Chelladurai's multi-dimensional model.  Explanation of cognitive techniques:  - Mental rehearsal Visualisation Imagery Attentional control	

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and cue utilisation Thought stopping - Positive self-talk.  Explanation of somatic techniques: - Biofeedback - Centering	
- Breathing control - Progressive muscle relaxation.	

#### Year 13 Core Knowledge

Aspects of personality

Attitudes

Arousal

Anxiety

Aggression

Motivation

Achievement motivation theory

Social facilitation

Group dynamics

Importance of goal setting

Attribution theory

Self-efficacy and confidence

Leadership

Stress management

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Evaluation
Analysis
Application
Independent Study
Writing

# **Year 13-** Sport and society and technology in sport (PS to Complete)

Autumn (1)	Autumn (2)	Spring (1)	Spring (2)	Summer (1)	Summer (2)
Concepts of physical activity & sport	Development of elite performers	Drugs in sport	Impact of commercialisation on	Revision & preparation for exam	Study Leave
Development of elite performers	Ethics in sport Violence in sport	Sport & Law	physical activity and sport and the	Past papers	
Mock assessment full Paper 1 and partial Paper 2 content		Mock Assessments Full Paper 1 and Paper 2.	relationship between sport and the media		
			The role of technology in physical activity & sport		
Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary	Critical Key Vocabulary
PE	Institutes	Funda and intin	Performer.		
Sport	Development	Erythropoietin (EPO).	Coach.		
Recreation	Gold event series	Anabolic steroids.	Official.		
School sport	UK Sport	Beta blockers.	Audience.		
Factors	Talent ID	Physical	Sport		
National Governing Bodies.	Win ethic Sportsmanship	Psychological	Technology Analytics		

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National Institutes of Sport.	Gamesmanship	Positives Negatives	Testing	
UK Sport.	Deviance	Strategies	Injury Prevention	
Similarities	Positive	Testing	Sport.	
Differences	Negative	Law	Performer.	
	Amatuer	Legislation	Coach.	
	Oath	Performers	Audience	
	Violence	Coaches	Equipment	
		Officials	Facilities	
		Spectators		

### Year 13 Core Knowledge

Concepts of physical activity and sport

Development of elite performers in sport

Ethics in sport

Violence in sport

	Drugs in sport
	Sport and the law
	Impact of commercialisation on physical activity and sport and the relationship between sport and the media
	The role of technology in physical activity and sport
Year 13 Core Skills	Evaluation Analysis Application Independent Study Writing

# **Grade Descriptors:**

Grade	Descriptors
A	To achieve grade A, candidates will be able to:  Demonstrate an excellent breadth and depth of knowledge and understanding across most areas of the specification.  Demonstrate sustained application of excellent knowledge and understanding of the factors that underpin performance and involvement in physical activity and sport.  Be consistently successful when analysing or evaluating any of the topics across most areas of the specification, articulating their ideas accurately, concisely, and logically.  Apply the full range of basic and most advanced skills both consistently and successfully in high level formal or competitive situations.
C	Analyse and evaluate their own/another Candidates performance in a formal or competitive setting with excellent levels of depth and breadth.  To achieve grade C, candidates will be able to:  Demonstrate a good level of knowledge and understanding across many areas of the specification, but with some noticeable inconsistency or gaps.  Apply some knowledge and understanding of the factors that underpin performance and involvement in physical activity and sport with variable success.  Produce a good level of relevant analysis and evaluation on some of the topics from the specification, although this will not always be precise, accurate, concise, or logical.  Apply a most basic skills consistently and some advanced skills consistently well in formal or competitive situations.  Analyse and evaluate their own/another Candidates performance in a formal or

	competitive setting with a good level of depth or breadth.
	To achieve grade E, candidates will be able to:
E	Demonstrate some knowledge and understanding across many areas the specification, although significant gaps will be evident.  Apply knowledge and understanding of the factors that underpin performance and involvement in physical activity and sport on some occasions with limited success.  Attempt relevant analysis and evaluation on some occasions in a limited range of topics from the specification; this will often lack precision, accuracy, conciseness, and logical structure.  Apply some basic skills with limited consistency and success in formal or competitive situations.  Show a limited ability to analyse and evaluate performance in a formal or competitive situation.