GCSE PE: PERSONALISED LEARNING CHECKLIST Component 1 – Fitness and body Component 2 - Health and Performance systems 1. Applied anatomy and physiology 1. Health, fitness and well-being 2. Sports psychology 2. Movement analysis 3. Physical training 3. Socio-cultural influences 4. Use of data 4. Use of data Component 1 – Fitness and Body Systems Topic 1: Applied anatomy and physiology In this topic students will develop knowledge and understanding of the key body systems and how they impact on health, fitness and performance in physical activity and sport through the following content. Revised **Amber** Green Tick ☑ Area of Study: 1.1. The structure and functions of the musculoskeletal system The functions of the skeleton applied to performance in physical activities and sports: protection of vital organs, muscle attachment, joints for movement, platelets, red and white blood cell production, storage of calcium and phosphorus Classification of bones: long (leverage), short (weight bearing), flat (protection, broad surface for muscle attachment), irregular (protection and muscle attachment) applied to performance in physical activities and sports 1.1.3 Structure: cranium, clavicle, scapula, five regions of the vertebral column (cervical, thoracic, lumbar, sacrum, coccyx), ribs, sternum, humerus, radius, ulna, carpals, metacarpals, phalanges (in the hand), pelvis, femur, patella, tibia, fibula, tarsals, metatarsals, phalanges (in the foot), and their classification and use applied to performance in physical activities and sports Classification of joints: pivot (neck - atlas and axis), hinge (elbow, knee and ankle), ball and socket (hip and shoulder), condyloid (wrist), and their impact on the range of possible movements 1.1.5 Movement possibilities at joints dependant on joint classification: flexion, extension, adduction, abduction, rotation, circumduction, plantar-flexion,

dorsi-flexion and examples of physical activity and sporting skills and techniques that utilise these movements in different sporting contexts

1.1.6	The role of ligaments and tendons, and their				
	relevance to participation in physical activity and				
	sport				
1.1.7	Classification and characteristics of muscle types:				
	voluntary muscles of the skeletal system, involuntary				
	muscles in blood vessels, cardiac muscle forming the				
	heart, and their roles when participating in physical				
	activity and sport				
1.1.8	Location and role of the voluntary muscular system				
	to work with the skeleton to bring about specific				
	movement during physical activity and sport, and the				
	specific function of each muscle (deltoid, biceps,				
	triceps, pectoralis major, latissimus dorsi, external				
	obliques, hip flexors, gluteus maximus, quadriceps,	5 11.3			
1.1.9	hamstrings, gastrocnemius and tibialis anterior) Antagonistic pairs of muscles (agonist and	C//X			
1.1.9	antagonist) to create opposing movement at joints to	2			
	allow physical activities (e.g. gastrocnemius and	3			
	tibialis anterior acting at the ankle -plantar flexion to				
	dorsi flexion; and quadriceps and hamstrings acting	6		1	
	at the knee, biceps and triceps acting at the elbow,	Z = C	1	7)	
	and hip flexors and gluteus maximus acting at the	11			
	hip – all flexion to extension)	1		J	
1.1.10	Characteristics of fast and slow twitch muscle fibre	1	7	1	
	types (type I, type IIa and type IIx) and how this	6 C		7	
	impacts on their use in physical activities			7	
1.1.11	How the skeletal and muscular systems work		'r.		
	together to allow participation in physical activity and	1111 3	223		
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1.2.3 Structure of arteries, capillaries and veins and how this relates to function and importance during physical activity and sport in terms of blood pressure, oxygenated,	
deoxygenated blood and changes due to physical exercise	
1.2.4 The mechanisms required (vasoconstriction, vasodilation) and the need for redistribution of blood flow	
(vascular shunting) during physical activities compared to when resting	
1.2.5 Function and importance of red and white blood cells, platelets and plasma for physical activity and sport	
1.2.6 Composition of inhaled and exhaled air and the impact of physical activity and sport on this composition	
1.2.7 Vital capacity and tidal volume, and change in tidal volume due to physical activity and sport, and the reasons that make the change in tidal volume necessary	
1.2.8 Location of main components of respiratory system	
(lungs, bronchi, bronchioles, alveoli, diaphragm) and the role in movement of oxygen and carbon dioxide into and out of	
the body	1
1.2.9 Structure of alveoli to enable gas exchange and the	
process of gas exchange to meet the demands of varying	
intensities of exercise (aerobic and anaerobic)	
1.2.10 How the cardiovascular and respiratory systems work together to allow participation in physical activity and sport	>
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Area of Study: 1.3. Anaerobic and aerobic exercise	
1.3.1 Energy: the use of glucose and oxygen to release	
energy aerobically with the production of carbon dioxide and water, the impact of insufficient oxygen on energy release,	
the by-product of anaerobic respiration (lactic acid)	
1.3.2 Energy sources: fats as a fuel source for aerobic activity, carbohydrates as a fuel source for aerobic and anaerobic activity	

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Topic 2: Movement analysis	
In this topic students will develop knowledge and understanding of the basic principles of movement and their effect on performance in physical activity and sport through the following content.	
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Area of Study: 2.1. Lever systems, examples of their use in activity and the	
mechanical advantage they provide in movement	
2.1.1 First, second and third class levers and their use in physical activity and sport	
2.1.2 Mechanical advantage and disadvantage (in relation to	_
loads efforts and range of movement) of the body's lever systems and the impact on sporting performance	
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Area of Study: 2.2. Planes and axes of movement	
2.2.1 Movement patterns using body planes and axes: sagittal, frontal and transverse plane and frontal, sagittal, vertical axes applied to physical activities and sporting actions	
2.2.2 Movement in the sagittal plane about the frontal axis when performing front and back tucked or piked somersaults	
2.2.3 Movement in the frontal plane about the sagittal axis when performing cartwheels	
2.2.4 Movement in the transverse plane about the vertical axis when performing a full twist jump in trampolining	
I am most confident with the following topic/topics: I have struggled most with the following topic/topics:	
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Topic 3: Physical Training				
In this topic students will develop knowledge and understandin different training methods in order to plan, carry out, monitor a				
training programmes, through the following content.	Red	Amber	Green	Revised
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Area of Study: 3.1. The relationship between hea	Ith and	fitness a	and the	role
that exercise plays in both				
3.1.1 Definitions of fitness health exercise and performance and the relationship between them	M			
Area of Study: 3.2. The components of fitness, be	enefits f	or sport	and how	W
fitness is measured and improved				
3.2.1 Components of fitness and the relative importance of these components in physical activity and sport:	OF		3	
 cardiovascular fitness (aerobic endurance), strength, muscular endurance, flexibility, body composition, agility, balance, coordination, power, reaction time, speed 3.2.2 Fitness tests: the value of fitness testing, the purpose of specific fitness tests, the test protocols, the selection of the appropriate fitness test for components of fitness and the 	The Control of the Co	Miner Co. Co.		A CONTRACTOR
rationale for selection 3.2.3 Collection and interpretation of data from fitness test results and analysis and evaluation of these against normative data tables	自然			
 3.2.4 Fitness tests for specific components of fitness: cardiovascular fitness - Cooper 12 minute tests (run, swim), Harvard Step Test, strength - grip dynamometer, muscular endurance - one-minute sit-up, one-minute press-up, speed - 30m sprint, power - vertical jump, flexibility - sit and reach 3.2.5 How fitness is improved - see section 3.3.1-3.3.3 				
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Area of Study: 3.3. The principles of training and	their ap	plicatio	n to per	sonal
exercise/training programmes	•	•	•	
3.3.1 Planning training using the principles of training: individual needs, specificity, progressive overload, FITT (frequency, intensity, time, type), overtraining, reversibility, thresholds of training (aerobic target zone: 60–80% and anaerobic target zone: 80%–90% calculated using Karvonen formula)				
3.3.2 Factors to consider when deciding the most appropriate training methods and training intensities for different physical activities and sports (fitness/sport requirements, facilities available, current level of fitness)		10		
3.3.3 The use of different training methods for specific components of fitness, physical activity and sport:	2 0		' b	
continuous, Fartlek, circuit, interval, plyometrics, weight/resistance. Fitness classes for specific components of fitness, physical activity and sport (body pump, aerobics, Pilates, yoga, spinning). The advantages and disadvantages of different training methods		Dy.	371	7
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Area of Study: 3.4. The long term effects of exerc	cise			
3.4.1 Long-term effects of aerobic and anaerobic training and exercise and the benefits to the muscular-skeletal and cardio-respiratory systems and performance	THE STATE OF THE S			
3.4.2 Long-term training effects: able to train for longer and more intensely	\bigvee	8	1.	
 3.4.3 Long-term training effects and benefits: for performance of the muscular-skeletal system: increased bone density, increased strength of ligaments and tendons, muscle hypertrophy, the importance of rest for adaptations to take place, and time to recover before the next training session 	EI	317		

3.4.4 Long-term training effects and benefits: for performance of the cardio-respiratory system:	
 decreased resting heart rate, faster recovery, increased resting stroke volume and maximum cardiac output, increased size/strength of heart, increased capilliarisation, increase in number of red blood cells, drop in resting blood pressure due to more elastic muscular wall of veins and arteries, increased lung capacity/volume and vital capacity, increased number of alveoli, increased strength of diaphragm and external intercostal muscles 	
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Area of Study: 3.5. How to optimise training and prevent injury	
3.5.1 The use of a PARQ to assess personal readiness for training and recommendations for amendment to training based on PARQ	
3.5.2 Injury prevention through: correct application of the principles of training to avoid overuse injuries; correct application and adherence to the rules of an activity during play/participation; use of appropriate protective clothing and equipment; checking of equipment and facilities before use, all as applied to a range of physical activities and sports	
3.5.3 Injuries that can occur in physical activity and sport: concussion, fractures, dislocation, sprain, torn cartilage and soft tissue injury (strain, tennis elbow, golfers elbow, abrasions)	
3.5.4 RICE (rest, ice, compression, elevation)	
3.5.5 Performance-enhancing drugs (PEDs) and their positive	
and negative effects on sporting performance and performer lifestyle, including anabolic steroids, beta blockers, diuretics, narcotic analgesics, peptide hormones (erythropoietin (EPO), growth hormones (GH)), stimulants, blood doping	

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Area of Study: 3.6. Effective use of warm up and cool down							
3.6.1 The purpose and importance of warm-ups and cool downs to effective training sessions and physical activity and sport							
3.6.2 Phases of a warm-up and their significance in preparation for physical activity and sport							
3.6.3 Activities included in warm-ups and cool downs	3						
I am most confident with the following topic/topics: I have struggled most with the following topic/topics:							
Topic 4: Use of data In this topic students will develop knowledge and understanding areas of physical activity and sport, through this content and li				o key			
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Area of Study: 4.1. Use of data							
 4.1.1 Develop knowledge and understanding of data analysis in relation to key areas of physical activity and sport 4.1.2 Demonstrate an understanding of how data is collected in fitness, physical and sport activities – using both qualitative and quantitative methods 		5					
4.1.3 Present data (including tables and graphs) 4.1.4 Interpret data accurately							
4.1.5 Analyse and evaluate statistical data from their own results and interpret against normative data in physical activity and sport	74						
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Component 2: Health and Performance				
Topic 1: Health, fitness and well-being				
In this topic students will develop knowledge and understanding physical activity and sport to health, fitness and well-being the				ng in
physical activity and sport to ficultify fitness and well being th	Red	Amber	Green	Revised
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Area of Study: 1.1. Physical, emotional and socia	al health	, fitness	and we	II-
being				
1.1.1 Physical health: how increasing physical ability,	Ø. 113			
through improving components of fitness can improve	X//S			
health/reduce health risks and how these benefits are achieved	13	400		
	3			
1.1.2 Emotional health: how participation in physical activity	F 15	A IC	1	
and sport can improve emotional/psychological health and how these benefits are achieved	2 Ec	1	2)	
		7. 7.		
1.1.3 Social health: how participation in physical activity and	1 6		10	
sport can improve social health and how these benefits are achieved	13 C		47	
1.1.4 Impact of fitness on well-being: positive and negative		1000		
health effects	Table 1	D. El	3	7
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1.1.5 How to promote personal health through an	(1)		رد_	
understanding of the importance of designing, developing,	L & C. C. C.	3 1 6		4
monitoring and evaluating a personal exercise programme to	6.4	21		
meet the specific needs of the individual	THE			
1.1.6 Lifestyle choices in relation to: diet, activity level,		1) }
work/ rest/sleep balance, and recreational drugs (alcohol,	5			
nicotine)	(5)			
1.1.7 Positive and negative impact of lifestyle choices on	(22)		///	
health, fitness and well-being, e.g. the negative effects of smoking (bronchitis, lung cancer)	Je Fr		9	
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Area of Study: 1.2.The consequences of a sedentary lifestyle						
1.2.1 A sedentary lifestyle and its consequences: overweight, overfed, obese, increased risk to long-term health, e.g. depression, coronary heart disease, high blood pressure, diabetes, increased risk of osteoporosis, loss of muscle tone, posture, impact on components of fitness						
1.2.2 Interpretation and analysis of graphical representation of data associated with trends in physical health issues	M					
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Area of Study: 1.3. Energy use, diet, nutrition and	d hydrat	ion				
1.3.1 The nutritional requirements and ratio of nutrients for a balanced diet to maintain a healthy lifestyle and optimise specific performances in physical activity and sport	No.	D)	3	7		
1.3.2 The role and importance of macronutrients (carbohydrates, proteins and fats) for performers/players in physical activities and sports, carbohydrate loading for endurance athletes, and timing of protein intake for power athletes		3 50	District	A A		
1.3.3 The role and importance of micronutrients (vitamins and minerals), water and fibre for performers/players in physical activities and sports	置	1	0			
1.3.4 The factors affecting optimum weight: sex, height, bone structure and muscle girth	5	5				
1.3.5 The variation in optimum weight according to roles in specific physical activities and sports						
1.3.6 The correct energy balance to maintain a healthy weight	T. T.					
1.3.7 Hydration for physical activity and sport: why it is important, and how correct levels can be maintained during physical activity and sport		8	17			
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Topic 2: Sports Psychology					
In this topic students will develop knowledge					
affect performers and their performance in p	onysical activity ar	Red	Amber	Green	Revised
Area of Study, 2.1 Classification of	f ekille (besie/s	ompley.	onen/a	locod\	Tick ☑
Area of Study: 2.1. Classification o		complex	, open/c	ioseaj	T
2.1.1 Classification of a range of sports skills closed, basic (simple)-complex, and low organisation continua	anisation-high	- The Control of the			
2.1.2 Practice structures: massed, distribute variable	A SA'	College Colleg			
2.1.3 Application of knowledge of practice as classification to select the most relevant pra a range of skills		MA IS			
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Area of Study: 2.2. The use of goal	setting and SI	MART ta	rgets to	improv	е
and/or optimise performance					
2.2.1 The use of goal setting to improve and performance	6	52	5		/
2.2.2 Principles of SMART targets (specific, rachievable, realistic, time-bound) and the vaprinciple in improving and/or optimising performance.	alue of each				
2.2.3 Setting and reviewing targets to improoptimise performance	ve and/or		40		
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Area of Study: 2.3. Guidance and feedback on performance							
2.3.1 Types of guidance to optimise performance: visual, verbal, manual and mechanical							
2.3.2 Advantages and disadvantages of each type of guidance and its appropriateness in a variety of sporting contexts when used with performers of different skill levels							
2.3.3 Types of feedback to optimise performance: intrinsic, extrinsic, concurrent, terminal	AL.						
2.3.4 Interpretation and analysis of graphical representation of data associated with feedback on performance		10					
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Area of Study: 2.4. Mental preparation for perfo	rmance						
2.4.1 Mental preparation for performance: warm up, mental rehearsal							
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Topic 3: Socio-cultural influences								
In this topic students will develop knowledge and understanding of the socio-cultural factors that impact on physical activity and sport, and the impact of sport on society, through the following content.								
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Area of Study: 3.1. Engagement patterns of different social groups in physical								
activity and sport								
3.1.1 Participation rates in physical activity the impact on participation rates considering personal factors: gender, age, socio-economethnicity, disability 3.1.2 Interpretation and analysis of graphics.	ng the following omic group,							
of data associated with trends in participal		7	1. 1.	'				
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Area of Study: 3.2. Commercialis	ation of physica	l activity	v and sp	ort	TICK L			
3.2.1 The relationship between commercia					()			
and physical activity and sport		(3)						
3.2.2 The advantages and disadvantages of commercialisation and the media for: the the player/performer, the spectator	sponsor, the sport,			الريح				
3.2.3 Interpretation and analysis of graph of data associated with trends in the comphysical activity and sport		A ST	16					
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Area of Study: 3.3. Ethical and socio-cultural issues in physical activity and								
sport								
3.3.1 The different types of sporting behaviour:								
sportsmanship, gamesmanship, and the reasons for, and								
consequences of, deviance at elite level								
3.3.2 Interpretation and analysis of graphical representation								
of data associated with trends in ethical and socio-cultural	-							
issues in physical activity and sport								
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Topic 4: Use of data								
In this topic students will develop knowledge and understanding of data analysis in relation to key areas of physical activity and sport, through this content and linking it to other topics.								
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Area of Study: 4.1. Use of data								
4.1.1 Develop knowledge and understanding of data analysis in relation to key areas of physical activity and sport			U F)				
4.1.2 Demonstrate an understanding of how data is collected	(2)							
in fitness, physical and sport activities – using both	Can't		///					
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4.1.3 Present data (including tables and graphs)	E N							
4.1.4 Interpret data accurately	W	Ma						
4.1.5 Analyse and evaluate statistical data from their own								
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