

**Key:** \*Bold writing shows development or progression from previous year. \*<u>Underline</u> shows cross-over of key concepts with other end-points

Subject: SPORT SCIENCE			Open Faculty		
End points	Year 9	Year 10	Year 11	Year 12	Year 13
Develop	the principles of	benefits of cardio-		Vascular shunt	
knowledge and	training in a sporting	respiratory fitness in		mechanism and the	
understanding	context	everyday life		role of arterioles and	
of training				pre-capillary	
principles and	aerobic and anaerobic	benefits of muscular		sphincters	
how to keep in	exercise	strength and flexibility			
peek physical				The impact of physical	
condition	the components of	benefits of muscular		activity, training and	
	fitness	endurance		lifestyle on the	
Explore how				cardiovascular system	
the body	specific training	different short-term			
changes when	methods for each of	effects of physical		Respiratory muscles	
we exercise	the fitness	activity on the		used during exercise	
	components	musculo-skeletal and		and the mechanics of	
		cardio-respiratory		breathing	
	tests which assess	systems and reasons			
	fitness:	for these		Tidal volume,	
	-Maximal / sub			breathing frequency	
	maximal testing	ways to measure and		and minute Ventilation	
	-validity and reliability	record the short-term			
	of testing	effects of physical		The three energy	
		activity on the		systems	
	design a fitness	musculo-skeletal and			
	training programme:	cardiorespiratory		The energy continuum	
		systems		and how intensity and	
	gather details about			duration of exercise	
	the subject the	long-term effects of		determines which	
	programme is for	physical activity on the		energy system is	
		musculo-skeletal and		predominant	
	clarify the aims of the	cardio-respiratory			
	training programme	systems and reasons		The impact of physical	
		for these		activity, training and	

WFA Progression Map - planning for knowledge/skills etc to build & accumulate sequentially over time



	set realistic goals	ways to measure and		lifestyle on the skeletal	
	which can be	record the long-term		system	
	measured (SMART	effects of physical		- /	
	Target setting	activity on the			
		musculo-skeletal and			
	duration of the	cardiorespiratory			
	training programme	systems			
		-,			
	suitability of activities				
	organisation of				
	organisation of				
	activities				
	adaptability				
	progression (e.g.				
	applies the FITTA				
	principle				
	evaluate the				
	effectiveness of the				
	training programme,				
	and suggest area for				
	improvement				
	NC/Spec coverage	NC/Spec coverage	NC/Spec coverage	NC/Spec coverage	NC/Spec coverage
	RO42/RO43	RO42/43		UNIT 1	
Develop	how to interpret the	key components of the		The axial and	
knowledge and	results of fitness tests:	musculo-skeletal		appendicular skeletons	
understanding	-against normative	system and its function			
of the body`s	-validity			The functions of the	
systems	- reliability	key components of		skeleton and the link	
		cardio-respiratory		to types of bone	
Understand		system and its function			
how to				Classifications of joint	
investigate and		the role of the			
research into		l musculo-skeletal			

WFA Progression Map - planning for knowledge/skills etc to build & accumulate sequentially over time



both	system in producing	The types of synovial	
anatomical and	movement	joint and their	
physiological		structure	
aspects of sport	the role of the cardio-		
science and	respiratory system	Joint movements	
includes the	during physical activity		
role of scientific		Structure and function	
method and	different short-term	of the vertebral	
data analysis	effects of physical	column	
	activity on the		
	musculo-skeletal and	The impact of physical	
	cardio-respiratory	activity, training and	
	systems and reasons	lifestyle on the skeletal	
	for these	system	
	ways to measure and	Main muscles acting at	
	record the short-term	synovial joints	
	effects of physical		
	activity on the	Types of muscle	
	musculo-skeletal and	function and	
	cardiorespiratory	contraction	
	systems		
		Structure and function	
	long-term effects of	of muscle fibre types	
	physical activity on the	and the link between	
	musculo-skeletal and	mix of fibre types and	
	cardio-respiratory	performance	
	systems and reasons		
	for these	The structures of the	
		heart and their roles.	
	ways to measure and		
	record the long-term	Stroke volume, heart	
	effects of physical	rate and cardiac	
	activity on the	output,	
	musculo-skeletal and		
	cardiorespiratory	Structure of blood	
	systems	vessels and the	

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				predominant	
				aetermines which	
				duration of exercise	
				and how intensity and	
				The energy continuum	
				systems	
				The three energy	
				and minute ventilation	
				breathing frequency	
1				Tidal volume,	
1					
				breathing	
				and the mechanics of	
				used during exercise	
				Respiratory muscles	
				lungs and their roles	
				The structures of the	
				cardiovascular system	
l				lifestyle on the	
ł				activity, training and	
l				The impact of physical	
				spiniciers	
				snhincters	
				role of arterioles and	
				mechanism and the	
				Vascular shunt	
				functions of blood	
1				componentes una trien	



	Personality types and	Types of motivation,
Develop a deep	their effects on sports	
understanding	performance	Goal setting,
of the	intrinsic motivation	
relationship		Differences in
between sport	extrinsic motivation	motivation between
psychology and		general participation
the pressure of	achievement	compared to elite
professional	motivation	
sports and the		Differences in goals
control of	implications for sport	between general
human	and exercise	participation
behaviours	involvement	compared to elite
		performers
	types of aggression	
		Weiner's model of
	reasons for aggression	attribution
	theories of aggression	The effect of different
		attributions on sport
	explanations of	and exercise
	arousal and theories	performance
	into arousals cause	·
	and effect	Attribution retraining
	Anxiety and measuring	Understand the effects
	anxiety	of stress, anxiety and
	,	arousal in sport and
	the use of goal setting	exercise
	for motivation in sport,	
	- 1	Stages of group
	the use of mental	development
	rehearsal and imagery	
	in sport	Cohesion and factors
		affecting cohesion
	the use of relaxation	
	techniques in sport	Steiner's model of
		group effectiveness

	Impact of sport and exercise on mental health
	Use of exercise to treat certain psychosomatic illnesses
	Different psychological impacts of sport and exercise for elite performers and general participants
NC/Spec coverage	NC/Spec coverage UNIT 17
<ul> <li>NC/Spec coverage</li> <li>The definitions of chronic and acute</li> </ul>	NC/Spec coverage UNIT 17
n The definitions of chronic and acute sports injury 1.2 Common causes of	NC/Spec coverage UNIT 17
<ul> <li>NC/Spec coverage</li> <li>The definitions of chronic and acute sports injury 1.2 Common causes of chronic sports injuries,</li> </ul>	NC/Spec coverage UNIT 17
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-kyphosis	-kyphosis		
- round shoulder	- round shoulder	Possible psychological	
- scoliosis	- scoliosis	effects of suffering a	
		sports	
the physical benefits of	the physical benefits		
a warm up	of a warm up	Extrinsic factors which	
		can influence the risk	
the psychological	the psychological	of injury	
henefits of a warm up	henefits of a warm un	of mjury	
Schents of a warm up	benefits of a warm up	Intrinsic factors which	
key companents of a	kov components of a	can influence the rick	
		of inium factors	
warm up	warm up	of injury factors	
physical benefits of a	nhysical honofits of a	Stops that can be	
physical benefits of a	cool down	taken to minimise the	
coordown		risk of sports injurios	
hav an an an art of a		risk of sports injuries	
key components of a	key components of a		
cool down	cool down	Safety measures which	
		are intrinsic to sports	
specific needs which a	specific needs which a		
warm up and cool	warm up and cool	Appropriate courses of	
down must consider	down must consider	action immediately	
		following an acute	
acute and chronic	acute and chronic	sports injury	
injuries	injuries		
		Emergency Action Plan	
types, causes and	types, causes and	(EAP)	
treatment of common	treatment of common		
sports injuries	sports injuries	The different agencies	
		and professionals that	
how to respond to	how to respond to	could be involved in	
injuries and medical	injuries and medical	the treatment of	
conditions in a	conditions in a	sports injuries	
sporting context	sporting context		
	,	The way in which each	
Emergency Action	Emergency Action	of the identified	
Plans (FAP) in a	Plans (FAP) in a	agencies or	
snorting context	snorting context	nrofessionals could	
sporting context	JOI LING COLLEAL		



			support rehabilitation	]
	the symptoms of	the symptoms of	from sports injury	
	common medical	common medical		
	conditions and how to	conditions and how to	Under what	
	respond to these	respond to these	circumstances an	
	medical conditions	medical conditions	injured person might	
			seek out external help	
			The different types of	
			treatment that can be	
			used to support	
			rehabilitation from	
			sports injury,	
			<b>T</b> I I	
			The physiological	
			response to each of	
			the renabilitation	
			techniques identified	
			The indications for and	
			against each identified	
			treatment for a range	
			of common sports	
			iniuries	
			Different grades of	
			muscle injury	
			Different phases of	
			treatment	
			Exercises that can be	
			used as part of a	
			rehabilitation	
			programme	



			planning a sports injury rehabilitation Programme Assessing the needs of a client,	
NC/Spec coverage	NC/Spec coverage	NC/Spec coverage	NC/Spec coverage	NC/Spec coverage
	RO41	KO41	UNII 1/2	UNII 1/2