

**GCE** 

# **Physical Education**

Advanced Subsidiary GCE

Unit G453: Principles and concepts across different areas of Physical Education

### Mark Scheme for June 2011

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	stion	Expected Ans	wer	Marks
	nber		II (6 d AA)	
			dies (Option A1)	
1	(a)	Explain the impact of teachers' industrial action on the participation of young people in physical activity in the 1970s and 1980s.  Describe three positive impacts of the National Curriculum for Physical Education in state schools today.  5 marks for 5 of:		
		e impact of teac ctivity in the 19	thers' industrial action on the participation of young pec 70s and 1980s.	pple in
Sub	max 2			
1	(less	provision)	Reduced extra-curricular activity which reduced participation schools) or reduced opportunity or provision (for physical and or reduced Saturday fixtures	ictivity)
2	(lifetir	me sport)	(potential) impact on lifelong involvement (in physical activity young people less likely to be inspired by (role model) PE	• •
3	(comi	munity)	Increased community or club participation (due to reduced provision)	school
4	(non-	specialists)	Fewer non-specialist staff helping with extra-curricular prog	gramme
stat		three positive in ols today.	mpacts of the National Curriculum for Physical Education	n in
5		dards)	Higher standards/clear national standards/ progress (due t assessment)	0
6	(cons	istency)	A consistent experience wherever a child goes to school/s offered in all schools/easy transfer between schools	ame
7	(balaı	nce)	A balanced PE experience	
8	(pupil	rights)	Learners gain the right to certain content	
9		cipation)	Leads to great likelihood of lifelong participation	
10	(adap	tation)	Schools can adapt the curriculum to suit themselves or the strengths	eir
11	(supp	ort)	Support provided (especially to non-specialist teachers)	
12	(varie	ty/skills)	Variety or broad range of skills developed/thinking or analy social skills developed/accept examples of skills or values fair play or integrity or independence or problem solving / experiencing different roles e.g. leader or official	
13	(time)		Protected time/government targets/5 hour offer	
14	(wellb	peing)	Stress relief / increase in confidence / healthy lifestyle	

Compulsory on its own = TOO VAGUE

	Question Expected Answer Number			Marks
	(b) Contrast the pre-industrial social and cultural factors relating to popular recreation with the post-industrial social and cultural factors relating to rational recreation.			[5]
	5 marks for 5 of: need both pre and post factor for each mark			
Pre-industrial factors Post-industrial			Post-industrial factors	
1	Seas	onal time/Agricultural	Machine time/Industrial (lifestyle) / regular	
	(lifest	yle)/irregular		
2	Limite	ed transport or communication	Improved transport or communication	
3	(widespread) illiteracy		(increased) literacy/business or admin skills	istrative
4		n difficult or lifestyle/Uncivilised	(more) civilised lifestyle/(More)	
	•	ety)/limited law and order/limited	civilised/increased law and order/polic	e system
	-	policing system/army used to keep peace / the influence of RSPCA		
5	Feud	al system/two-class society	(emergence of new) middle class/three society	e class
6	Lack	of or limited or low technology	More advanced or improved technolog	ЗУ

	(c)	schools	the comparatively low status of lawn tennis in public at the end of the nineteenth century and possible barriers to ation in tennis by young people today.
		5 marks	
			x 3 for explanation of comparatively low status
			omparatively low status because:
1	(spac	, 	courts took up a comparatively large amount of space (which could arguably be better used for a larger numbers of boys)
2	(man	liness)	the game did not encourage or require manliness or courage (as was fashionable at the time) or physical endeavour
3	`	nwork/ ership)	the game did not encourage or require teamwork or co-operation or develop leadership (which were thought to be an essential aspect of games at the time)
4	(girls)	)	Lawn tennis had a reputation as a game for girls/the boys' sisters played it
5	(inver	ntion)	Lawn tennis was a new invention (and was treating with some scepticism or suspicion)
6		r team	games such as cricket or football/rugby had highest status or held pride
	game		of place
			p participation in tennis by young people today.  wing points
7	(finan	ice)	Lack of money <b>to buy or for</b> specialist kit or equipment or for club membership or for hiring of facilities/difficulty or cost of maintaining courts to suitable standard in schools
8	(coac	:hing)	Specialist teaching or coaching required/lack of specialist coaches
9	(diffic	ult)	A (comparatively) difficult game to play/not easy to pick up a racquet and be able to play/more difficult than eg football or badminton
10	(time)	)	Lack of time to play/pressure from other activities or commitments/ summer game so limited time available in schools (in summer term) / often not played (much) in schools
11	(trans		Unable to get to courts or club/lack of transport
12	(facili		Poor quality of or lack of courts/(in schools) tennis uses large amount of
	space	e)	space for (relatively small) numbers occupied/pressure on court space for car parks (or equivalent)
13	(weat	ther)	Unpredictability of or poor (British) weather
14	(class		(perceived to be) middle class game / elitist

Question Number	Expected Answer	Marks
(d)*	(d)* Discuss the influence of public schools on the development of bathing and swimming at different stages during the nineteenth century. Evaluate how nineteenth century social and cultural factors continue to impact on participation and performance in bathing and swimming today.  Level 4: — a comprehensive answer  • detailed knowledge & excellent understanding • detailed analysis and excellent critical evaluation • well-argued, independent opinion and judgements which are well supported by relevant practical examples • very accurate use of technical and specialist vocabulary • high standard of written communication throughout.  Discriminators from L3 are likely to include: • detailed knowledge and excellent understanding of all aspects of the question • the three stages of public school development are discussed successfully • effective evaluation of the factors that affect both participation and performance in bathing today • insightful comment/understanding of how the past affects the present • sound structure and balance between parts of the question  Level 3: — a competent answer • good knowledge & clear understanding • good analysis and critical evaluation	[20]
	Level 4: – a comprehensive answer	[18-20]
	detailed knowledge & excellent understanding	
	l	
	· · · · · · · · · · · · · · · · · · ·	
	nigh standard of written communication throughout.	
	Discriminators from L3 are likely to include:	
	1	
	the three stages of public school development are discussed	
	·	
	, · · · · · · · · · · · · · · · · · · ·	
	·	
	Sound off dotains and balance between parts of the question	
	Level 3: – a competent answer	[13-17]
	•	
	Independent opinions and judgements will be present but may not	
	always be supported by relevant practical examples	
	generally accurate use of technical and specialist vocabulary	
	written communication is generally fluent with few errors.	
	Discriminators from L2 are likely to include:	
	good knowledge and understanding of most aspects of the question	
	public school development (not necessarily each stage) discussed	
	with some success	
	competent evaluation of the factors that impact on participation	
	and/or performance in bathing today	
	some understanding of how the past affects the present	
	an attempt at structuring/answering the question with balance	
	between parts of the question	

Level 2: – a limited answer	[8-12]
limited knowledge & understanding	
<ul> <li>some evidence of analysis and critical evaluation</li> </ul>	
<ul> <li>opinion and judgement given but often unsupported by relevant practical examples</li> </ul>	
<ul> <li>technical and specialist vocabulary used with limited success</li> </ul>	
<ul> <li>written communication lacks fluency and contains errors.</li> </ul>	
Discriminators from L1 <u>are likely</u> to include:	
<ul> <li>limited knowledge and understanding of some aspects of the question</li> </ul>	
<ul> <li>an attempt has been made to discuss the influence of public schools with limited success</li> </ul>	
an attempt has been made to evaluate the factors that impact on	
participation and/or performance today but with limited success	
an attempt at structuring/answering the question but not necessarily  with belonge between parts of the question.	
with balance between parts of the question	
Level 1: – a basic answer	[0-7]
basic knowledge & little understanding	
little relevant analysis or critical evaluation	
little or no attempt to give opinion or judgement	
<ul> <li>little or no attempt to use technical and specialist vocabulary</li> </ul>	
errors in written communication will be intrusive.	
At L1 responses <u>are likely</u> to:	
<ul> <li>demonstrate basic knowledge and understanding of some aspects of the question</li> </ul>	
<ul> <li>demonstrate basic discussion of the influence of public schools</li> </ul>	
<ul> <li>demonstrate little or no attempt at evaluating the factors that impact</li> </ul>	
on participation and/or performance today	

Influ		ls: on the development of bathing and swimming at different			
	es during the ninetee				
	Stage one (bullying and brutality)/beginning of nineteenth century:				
1	(pop rec)	Informal bathing (in natural facilities)			
		like popular recreation / fun			
	( ) ( )	use of rivers or ponds/river as natural playground			
2	(adopted)	Brought to schools by boys who had swum			
	/	(informally) at home/adopted from activity pursued at home			
3	(recreation/survival/ health)	(Motives as for popular recreation) survival or health			
1		Headmasters desperate to keep boys safe     Informally competitions			
4	(competition)	Informally competitions			
5	(avaluativa point)	arranged races by boys themselves  Did have impact on development but (arguably) loss so than public.			
5	(evaluative point)	Did have impact on development but (arguably) less so than public provision			
Stan	o two (social control)	/mid nineteenth century:			
<u> Згау</u> 6	(rationalisation)	More regular			
U	(Tationalisation)				
7	(therapeutic)	more regulated or structured  Considered beneficial or therapeutic			
1	(therapeutic)	part of healthy lifestyle			
8	(lessons)	Swimming lessons / some teaching			
0	(16880118)	need to keep boys safe			
9	(competition)	Inter-house competitions			
		ate nineteenth century:			
10	(technical)	Technical development/specialist facilities			
10	(technical)	eg diving boards or changing huts			
11	(teachers/	Specialist swimming teachers or masters			
11	attendants)	· ·			
12	(competition)	<ul> <li>swimming attendants to ensure safety</li> <li>Galas and competitions</li> </ul>			
12	(competition)	·			
13	(Ducker)	<ul> <li>inter-house and inter school competitions</li> <li>Examples such as a Duck Pond (Ducker) at Harrow School</li> </ul>			
14	(facilities)	Purpose built baths in some schools			
14	(lacilities)	facilities increased status or prestige of school			
15	(status)				
		Low status compared to major team games century social and cultural factors continue to impact of			
		ance in bathing and swimming today.			
10	th century factors	their impact today			
16	(size/overcrowding)	Most towns today are well provided with range of facilities including			
10	(Size/Overcrowding)	leisure pools			
		Examples of provision			
		Can affect performance			
17	(hygiene/washing)	No impact today – washing facilities at home for majority			
17	(Hygierie/Wasiling)	Although some men only or women only baths available			
18	(pollution)	Less pollution / impact today			
10	(poliution)	blue flags (or equivalent) on beaches/cleaner beaches &			
		sea/less pollution			
		·			
19	(dispaso)	impact of environmentalists  Swimming to combat objective and as part of balanced active healthy.			
ı	(disease)	Swimming to combat obesity and as part of balanced active healthy lifestyles today			
		<ul> <li>health spas with relaxation pools etc/overcoming or</li> </ul>			
		combating stress			
		health link to performance			
		- Health link to penormance			

20	(safety)	It is widely believed that all children should learn to swim/swimming  is part of National Curriculum  could go on to be good performers
21	(class)	Class should not affect opportunity today  • as Govt aims for free swimming for all / but still not available for some
22	(local amenity)	Some towns have prestigious facilities which draw people from surrounding areas  improved transport better performance

	estion mber	Expected Ans	swer	Marks	
Sec	tion A	<ul> <li>Comparative</li> </ul>	Studies (Option A2)	JI.	
2	(a)	Explain the h	igh status of Outdoor Education in Australian schools vision for Outdoor Education is different in the UK.	[4]	
		4 marks – sub	max 3 for Australia		
Out	door E	on of high statu d. has high sta	is: itus in Australian schools because:		
	max 3				
1	(HBL		Can contribute to a healthy balanced lifestyles		
2	(clima		Favourable climate/climate encourages Outdoor Education		
3	(wilde	erness)	Genuine wilderness exists/there is unexplored or unpopula territory	ated	
4	(varie	ety/quality)	Varied (natural)environment or landscape/outback and been environment/outstanding natural resources/aesthetically appealing/chance to show or appreciate the beauty or varienvironment		
5	(acce	essibility)	Easily accessible (from towns)		
6	(survi	ival)	Important (to learn the skills) in a country with hostile environment or severe climate or genuine wilderness		
7	(bush	culture)	OEd a reflection of bush culture or frontierism/bush culture can be experienced/outdoor adventure part of pioneering spirit		
8	(pride	e/awareness)	Increases national pride or nationalism/raise awareness of aboriginal heritage (Ayres Rock renamed Uluru)	f	
9	(tradi	tion)	Tradition of outdoor activities (from British colonial times)/o	outdoor	
10	(scho	ools)	It is examined in schools so status raised/many schools had quality) OE programmes so status raised	ave (high	
11	(asso	ociations/ ork)	States have outdoor education associations (eg The Victo Outdoor Education Association – VOEA) which supports to of OE/state associations are linked via national network (C Education Australia – OEA)/OEA supports the practice and of outdoor education throughout Australia	eachers Outdoor	
ar	nd why	provision for (	Outdoor Education is different in the UK.		
Sub	max 2				
Acc	ept any	suitable compa	arative point such as:		
12	(clima	ate)	Less suitable climate		
13	(envii	ronment)	Less suitable or varied or accessible natural facilities		
14	(skills	s)	(arguably) less need to learn the skills in (most parts of) U	K	
15	(statu	ıs)	Lower status in schools/not (generally) examined in school		
16	(scho	ools)	Constraints on schools eg funding or specialist staffing or equivalent suitable school constraint		

	stion nber	Expected Ans	swer	Marks
	(b)	and performa values stems 5 marks – sub	cultural values in Australia that can affect participation nce in physical activity. Explain how one of these from Australia's historical relationship with the UK.  max 4 from Australia	[5]
		description rec		
Don			ralia - Sub max 4 marks	
1	(Bush	n culture)	(legacy of) bush culture <b>which is</b> showing determination o courage or persistence as a result of coping in a difficult environment	r
2	(Equa	ality/ ocracy)	Australia as an egalitarian society meaning that it is demo equal/social class and privilege are (allegedly) irrelevant/A as (allegedly) the land of the fair go meaning that racism discrimination does not exist or has been overcome/Austra democratic meaning that citizens are encouraged to be a political or civic life or enjoy human rights or is a country we laws and procedures apply equally to all citizens	ustralia or alia is ctive in
3		ing pot/Multi- ralism)	Australia as a social melting pot <b>which is</b> a blend of difference peoples or backgrounds or immigrants/Australia is (now) of to multi-culturalism or is a multi-cultural society <b>meaning t</b> or different races or ethnic groups or cultures exist together	ommitted <b>hat</b> many
4	(Fair	play)	Fair play or sportsmanship or justice is respected or admir important (to the sporting ethos of) Australia	
5	(Tear	nwork)	Teamwork or co-operation or joint effort is respected or ad	mired
6	(Indiv	riduality)	Individuality or independence or self-reliance is respected admired	or
7	(Com	petitiveness)	Competitiveness or the desire to achieve or win is importa many Australians / national pride	nt to
8	(Parti	cipation)	Taking part in sport or physical activity is fashionable or his or important for health	gh status
Exp UK.		w one of these	values stems from Australia's historical relationship wi	th the
Sub	max 1			
9		teenth century)	Competitiveness / Participation / Democracy from games cul English public schools which was taken to and then copied ir	

	stion	Expected Ansv	wer	Marks
	(c)	that society. Discuss discri	on exists in society it may be evident in the sport of mination in high level sport in the USA. To what extent in the USA the same in sport in the UK?	[6]
		6 marks – sub r	max 5 for discrimination in sport in USA	
Disc	cuss di	scrimination in	high level sport in the USA.	
1	(WAS		Dominance by WASPs (white Anglo-Saxon protestant male	es)
2	(AA –	- discrim)	History of discrimination against African Americans in socious and/or in sport/(social) stereotyping of African Americans in sports eg boxing or athletics but not in others such as ice h	n certain
3	`	- success/stars)	More recent (since 1950s) success by African American performers/more recent opportunity or provision or esteem performers from minority groups to be successful/sport sta created/opportunities for wealth and or fame/opportunities from rags to riches	for rs for going
4	(Toke	enism)	Tokenism which is the hiring of a number of people from a ethnic group to give appearance of equality or as a symbol (perhaps to meet minimum requirement of law)	
5	(Stac	king)	Stacking is the grouping or directing of certain ethnic group (or away from) certain positions in sports teams/the disproportionate concentration of ethnic minorities into cert positions in sports teams/(eg ethnic minority players group peripheral positions or away from decision making position	ain ed into
6	(Cent	trality)	Centrality is notion that key or leadership or decision making positions in a sports team are held by WASPs or whites or the top of the social pecking order /(eg coaches or manages still predominantly white)	ng those at
7	(Links	s)	Stacking and centrality are linked sociological concepts/sta and centrality mirror the hierarchical nature of American so	_
8	(Glas	s ceiling)	A discriminatory barrier that prevents social minorities from positions of power or responsibility / an (invisible) barrier the determines the level to which a (demographic) minority can society or an organization / discrimination against groups of women	rising to nat n rise in
9	(Role	models)	The 'glass ceiling' can sometimes be broken or broken with difficulty which leads to the performer becoming a role most the Williams sisters	
10	(multi	i-culturalism)	USA committed to multi-culturalism/stacking and centrality (arguably) becoming less evident (as more opportunities a those from ethnic minorities / pluralism	
		ctent is the situa	ation the same in sport in the UK?	
5ub 11	max 2		Credit relevant point/s that illustrate the presence or chas	nce of a
12	(UK) (UK)		Credit relevant point/s that illustrate the <b>presence or abse</b> USA factor <b>operating or not operating</b> in the UK/eg black as sports stars achieving wealth and fame	

Question Number	Expected Answer	Marks
(d)*	Compare the background and contemporary status of American football in the USA and Rugby Union in the UK. Evaluate the impact of commercialism on American football in the USA and Rugby Union in the UK.	[20]
	Level 4: – a comprehensive answer	[18-20]
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> <li>high standard of written communication throughout.</li> </ul>	
	<ul> <li>Discriminators from Level 3 are likely to include:         <ul> <li>detailed knowledge and excellent understanding of all aspects of the question</li> </ul> </li> <li>direct comparisons are made successfully between the background and contemporary status of American football in the USA and Rugby Union in the UK; other stand alone points may also be made</li> <li>effective evaluation of the impact of commercialism on American football in the USA and Rugby Union in the UK</li> <li>sound structure and balance between parts of the question</li> </ul>	
	Level 3: – a competent answer	[13-17]
	<ul> <li>good knowledge &amp; clear understanding</li> <li>good analysis and critical evaluation</li> <li>Independent opinions and judgements will be present but may not always be supported by relevant practical examples</li> <li>generally accurate use of technical and specialist vocabulary</li> <li>written communication is generally fluent with few errors.</li> <li>Discriminators from Level 2 are likely to include:         <ul> <li>good knowledge and understanding of most aspects of the question</li> <li>with some success, direct comparisons are made between the background and contemporary status of American football in the USA and Rugby Union in the UK; other stand alone points may also be made</li> <li>competent evaluation of the impact of commercialism on American football in the USA and Rugby Union in the UK</li> <li>an attempt at structuring/answering the question with balance between parts of the question</li> </ul> </li> </ul>	

Lev	el 2: – a limited answer	[8-12]
•	limited knowledge & understanding	
•	some evidence of analysis and critical evaluation	
•	opinion and judgement given but often unsupported by relevant practical examples	
•	technical and specialist vocabulary used with limited success	
•	written communication lacks fluency and contains errors.	
Disc	criminators from Level 1 <u>are likely</u> to include:	
•	limited knowledge and understanding of some aspects of the question	
•	with limited success, direct comparisons are made between the background and contemporary status of American football in the USA and Rugby Union in the UK; stand alone points are likely to be more in evidence	
•	an attempt at evaluation of the impact of commercialism on American football in the USA and Rugby Union in the UK with limited success	
•	an attempt at structuring/answering the question but not necessarily with balance between parts of the question	
Lev	el 1: – a basic answer	[0-7]
•	basic knowledge & little understanding	
•	little relevant analysis or critical evaluation	
•	little or no attempt to give opinion or judgement	
•	little or no attempt to use technical and specialist vocabulary	
•	errors in written communication will be intrusive.	
At L	evel 1 responses <u>are likely</u> to:	
•	demonstrate basic knowledge and understanding of some aspects of the question	
•	demonstrate a basic comparison of the background and contemporary status of American football in the USA and Rugby Union in the UK; stand alone points are likely to outnumber direct comparisons	
•	demonstrate little or no attempt at evaluating the impact of commercialism on American football in the USA and Rugby Union in the UK	

	Compare the background and contemporary status of American football in the USA and Rugby Union in the UK.					
	American Football – USA Rugby Union – UK					
Background:						
1	In early 1800s (originally) there were no generally accepted rules /mob game  • characteristics of the mob game	In early 1800s (originally) there were no generally accepted rules  • characteristics of the mob game				
2	Evolved during 1800s	Evolved during 1800s				
3	Adapted from Rugby Union  Developed in Ivy League Universities  eg Yale (in 1800s)	Developed in (nineteenth century) Public Schools  • eg Rugby School/and universities eg Oxbridge				
4	Remained a university game/became professional game  • no tradition of club structure for game	Schools impacted on senior game as many clubs were formed  • by 'Old Boys'/strong / club structure				
5	There is no single national governing body for AF in the USA  • there are several leagues including the NFL/NFL formed in 1920	RFU • established in 1871				
6	<ul> <li>(by 1900) game was highly physical or violent or dangerous</li> <li>serious injury or deaths of players not uncommon/lead to intervention by President</li> <li>in 1910 season 6 players were killed which resulted in rule changes</li> </ul>	Controlled aggression rather than outright violence  • no real evidence of catastrophic injury or death during developmental stages				
7	Originally called 'grid-iron'/pitch markings were originally horizontal and vertical	Pitch markings present				
8	Rules increased or encouraged physicality	Rules restrict physicality				
9	Game reflected 'frontier' or 'pioneering' spirit'	Game reflected values of public schools or Empire  • eg leadership/courage/ determination				
10	Initially little protective clothing	No protective clothing until (relatively) recently				
11	Forward pass made legal	No forward pass				
12	Strong rivalry between universities	Strong rivalry between universities				
13	Became professional early in development	Friendly' Matches until 1990s/leagues developed with onset on professional etc     Paris declaration				
14	Professional coaches employed by universities	No professional coaching during development / prof. coaching post professional era				
15	Game not influenced by class structure  • stacking and centrality	Middle class game				
16	An American game that supported isolationist policy of USA/is America's own  • game has been mainly rejected elsewhere	Game spread to C18 countries of Empire				
17	Embraced commercialism	Resisted commercialism				

temporary status	
Very high status	Very high status
	<ul> <li>Especially in some parts of the UK (eg south of England)</li> </ul>
Most popular spectator sport in USA	Not the most popular sport
	<ul> <li>behind Premiership Football League in UK</li> </ul>
	growing business
Game is entertaining or sensational or	Skill or creativity or flair as or more
intense or hard-hitting	important than intensity
<ul> <li>which arguably raises its status or</li> </ul>	<ul> <li>greater intensity since game went</li> </ul>
popularity	professional
	Increasingly has entertainment off the pitch
	eg cheerleaders or mascots
l	There are draws
	participation ethic
Has high media profile or hype	Increasing media product or hype
	impact of Sky TV
Is strictly linked to big business/is highly commercialised	Increasingly linked with business and commercialism
Gives access to the American Dream	Gives opportunity for fame and fortune
<ul> <li>to very few/produces sport stars eg accept any suitable example</li> </ul>	<ul> <li>to very few/produces sport stars eg Wilkinson</li> </ul>
High status in High Schools	High status in schools
<ul> <li>little league / modified competitions</li> </ul>	<ul> <li>High status especially in</li> </ul>
	independent schools
	<ul> <li>Mini rugby / modified competitions</li> </ul>
Image of game has been knocked by scandal	Image of game has been knocked by scandal
eg drugs and deviance	eg drugs and deviance
Image has stayed largely the same	Image or status of game has (arguably)
	changed since onset of professional era
	Game is entertaining or sensational or intense or hard-hitting  • which arguably raises its status or popularity  Entertainment off the pitch  • eg cheerleaders or mascots  Outright winners (no draws)  • win ethic  Has high media profile or hype  Is strictly linked to big business/is highly commercialised  Gives access to the American Dream  • to very few/produces sport stars eg accept any suitable example  High status in High Schools  • little league / modified competitions  Image of game has been knocked by scandal  • eg drugs and deviance

## Evaluate the impact of commercialism on American football in the USA and Rugby Union in the UK.

#### **Both games**

- 29 Strong links between the game, sponsorship and media
  - the golden triangle
- 30 Money made from ticket sales or merchandise or media rights or satellite or cable TV deals
  - Examples
- 31 Arguably the link with commercialism increases temptation to cheat
  - eg drug taking
- 32 Laws of games designed (AF) or modified (RU) to make game more entertaining or attractive
  - Examples
- 33 Sponsorship impact of involvement by multinational companies
  - eg ... (accept suitable example)

#### **American Football**

- 34 Massive media interest
  - huge amount of air time
  - eg 130 million/highest TV audience in US
- 35 Super Bowl showpiece event and championship game of NFL
  - Super Bowl as championship game of NFL

- 36 Regular TV commercial breaks
  - Longer breaks
- 37 Teams bought or sold as franchises/teams move within country when bought or sold
  - eg accept relevant example
- 38 Draft system operates where players are 'bought/sold'

#### **Rugby Union**

- 39 Increasing impact of commercialism
  - copying USA model/becoming Americanised
  - salary cap
- 40 League (competition) structure put in place
  - European cup developed (increased commercial potential)
- 41 ...since Rugby Union became professional (in 1995)
- 42 Onset of professionalism/commercialism stopped 'rush' of union player to league code
- 43 Impact of Rugby World Cup as commercial stimulant

Question Number		Expected Answer	
		Charte Developer (Ontion D4)	
		- Sports Psychology (Option B1)	F 43
3 (a)		Identify four different types of attribution proposed by Weiner's attribution model and give a practical example for each type identified.	[4]
Four	marks	for: (must have practical example for each)	
1	Exte	rnal/extrinsic/environmental/uncontrollable attributions + practical example ne weather/luck/task difficulty/other players etc.	
2	Inter	nal/intrinsic/dispositional/personal/controllable attributions + practical nple eg effort/determination/ability etc	
3	Stab	le/unchanging/persistent/enduring attributions + practical example eg task ulty/opposition/ability etc	
4		able/changeable attributions + practical example eg effort /tactics etc.	
	(b)	Describe how goal setting can impact on participation and performance in sport.	[5]
5 ma	rks for	5 from: opposites to count for negative influences of goal setting	
1	Moti	vation can motivate/encourage to participate/play/join-in/to do well/ strive for er performances or personal bests	
2		increase confidence /self esteem / self efficacy / mastery orientation	
3	Can	encourage persistence/sticking to the task/not giving-up	
4	Can give direction/focus/end product to aim for/concentration		
5	Can	help to control anxiety/stress/arousal	
6		be SMART/SMARTER (specific/measurable/achievable/realistic/time- ed) (SMARTER to include exciting/recorded) to be relevant	
7		help to develop skills/strategies/tactics	
	(c)	Explain the causes and effects of evaluation apprehension on sports	[6]
		performance or lifestyle behaviours.	
-		6 from:	
		marks for causes	
(Cau	•	ar reporting guestion or Evaluate	
		or repeating question eg Evaluate	
2		sed by (perception that) others are judging your performance/lifestyle	
	mod	e acute/likely if those who are watching are of high status/role els/friends/parents/people we look up to	
3		e likely for those that have (high trait/state) anxiety in the situation	
4	attrib	e likely for those that have low self esteem/lack confidence/those that bute their behaviour internally / have had negative experiences.	
(Effe	cts)	marks for effects (total of 6 marks available only)	
5		ses increase in anxiety/stress/arousal	
6	l l	Is to doubt/lack of confidence/facilitates need to avoid failure behaviour/dance behaviour / prejudiced against the activity	
7		cause performer to give up/'choke'/revert to poor lifestyle / poor ormance/social inhibition	
8	Can	lead to poor attentional control/difficult to concentrate/make sions/affects perceptual awareness/makes the wrong decision about lifestyle	
9	Can	motivate to try harder/be more determined to win/facilitates need to achieve aviour/determined to stick to healthy lifestyle	

Question Number	Expected Answer	Marks
(d)*	Evaluate critically theories of aggression that seek to explain why negative responses often occur in sporting situations. Use practical examples for the theories you evaluate.	[20]
	Level 4: – a comprehensive answer	[18–20]
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> <li>high standard of written communication throughout.</li> </ul>	
	<ul> <li>Discriminators from Level 3 <u>are likely</u> to include:</li> <li>all (4) main theories likely to be explained - (Instinct/frustr-agg/Agg cue/Social learn theory)</li> <li>nature versus nurture likely to be referred to appropriately</li> <li>practical examples are consistently used effectively for each theory identified and gives appropriate context</li> <li>there are relevant evaluative points made for each theory</li> <li>frequent use of/links with relevant psychological terminology/theories</li> <li>the negative aspects of aggressive responses are referred to effectively</li> </ul>	
	Level 3: – a competent answer	[13-17]
	<ul> <li>good knowledge &amp; clear understanding</li> <li>good analysis and critical evaluation</li> <li>Independent opinions and judgements will be present but may not always be supported by relevant practical examples</li> <li>generally accurate use of technical and specialist vocabulary written communication is generally fluent with few errors.</li> </ul>	
	Discriminators from Level 2 are likely to include:  at least three main theories explained  practical examples are often used effectively to give context  there are relevant evaluative points made for most theories identified  some use of/links with relevant psychological terminology/theories	

Level 2: – a limited answer	[8–12]
<ul> <li>limited knowledge &amp; understanding</li> <li>some evidence of analysis and critical evaluation</li> <li>opinion and judgement given but often unsupported by relevant practical examples</li> <li>technical and specialist vocabulary used with limited success</li> <li>written communication lacks fluency and contains errors.</li> </ul> Discriminators from Level 1 are likely to include: <ul> <li>theories are described rather than explained</li> <li>practical examples are sometimes used effectively to give context</li> <li>there are few evaluative points made for each theory</li> <li>little use of/links with relevant psychological terminology/theories</li> </ul>	
Level 1: – a basic answer	[0-7]
<ul> <li>basic knowledge &amp; little understanding</li> <li>little relevant analysis or critical evaluation</li> <li>little or no attempt to give opinion or judgement</li> <li>little or no attempt to use technical and specialist vocabulary</li> <li>errors in written communication will be intrusive.</li> </ul>	[0-1]
At Level 1 responses are likely to:  few theories are described and are at times inaccurate.  practical examples, if used, are often irrelevant  little or no evaluative material  little or incorrect use of/links with relevant psychological terminology/theories.	

**Indicative content:** candidate responses are likely to include: (suggested development points are bulleted, \*= possible evaluation comments)

	are bulleted, "= possible evaluation comments)				
	ries of aggression that seek to explain why negative responses often occur				
in sp	orting situations.				
	nstinct theory)				
1	Instinct/natural/innate tendencies / stable/enduring				
	personality characteristics/personality defects/ mental illness				
2	A response to protect/survive				
3	Anger/high arousal				
	stress as triggers				
4	Can be caused by others' aggression				
	retaliation				
5	*But not all people are aggressive				
6	*But aggression shown by people at different times				
	depends on the situation/environment.				
(Frust	tration-aggression hypothesis)				
7	Frustrating circumstances blocks your goal				
	Frustration causes aggression				
8	Aggressive to achieve catharsis				
-	to feel better/to release frustration				
9	Often aggression if punished leads to more aggression				
	lack of catharsis				
10	Often caused by perceived/actual unfairness				
	eg refs'/officials' poor decisions				
11					
	eg having a poor game				
12	*But not all behave like this in frustrating circumstances				
13	*Does not take into consideration differing circumstances/environment				
14	*Aggression is never satisfying to most and creates regret				
	leads to low self-esteem				
	isado to ion con cotosm				
(Aggr	essive Cue hypothesis)				
15	Signals/cues/stimuli from the environment				
.0	situation trigger aggression (innately)				
16	Because cue is identified with expected/desired behaviour/we have learned				
. 0	this response from previous experiences				
17	Conditioned response/S-R bond that has been learned				
	operant conditioning				
18	You get praise/reinforcement if you are aggressive				
19	*The same cue can elicit different responses at different times for the same				
.	person				
20	*The same cue can elicit different responses for different people				
21	*We have the perceptual ability/control to be able to recognise inappropriate				
	aggression and avoid it				
(Socia	al learning theory)				
22	Watching/observing others who are aggressive likely to be copied				
	vicarious processes				
23	Learn aggressive behaviour from significant others				
20	role models with possible examples				
24	Reinforcement of aggressive behaviour will increase chance of copying				
25	Copying more likely if same sex model				
26	Males more likely to be physically aggressive than females				
	I maics more linely to be physically aggressive than lethates	j			

	<u>,                                      </u>	
27	Live/realistic models more likely to be copied	
28	*At times we do not copy those that model behaviour (role models) – which	
	opposes social learning view.	
29		
	independence can lead to role models/required behaviour being	
	countered/ignored.	
30	*Sometimes can't help ourselves be aggressive/innate feelings counteract what	
	we ought to be doing/how we are behaving.	
	rs possible approaches)	
	nal factors)	
31	Displaced aggression/other influences outside of sport	
	it's not what happens in sport but other external factors	
32	*Difficult to prove	
33	*One person who experiences the same external factors as another can	
	behave very differently	
(Cultu		
34	Socialisation/cultural norms and values determine your behaviour/it is expected	
	cultural determinants	
35	*Can't help our innate feelings	
	ctations of the game/sport)	
36	Game determinants/expected/norms in the game / to intimidate/dominate	
	opponent	
	examples of such activities eg ice hockey	
37	*Different people playing the same sport react differently	
38	People behave in spite of the game's norms because of other influences	
	people bring expected norms to a sport and sport is not a determinant	
	for behaviour/too many other stronger influences other than the sport	
	that dictates behaviour.	

Question Number	Expected Answer	Marks		
Section B – Biomechanics (Option B2)				
4 (a)	What is meant by the terms, line of gravity, and, base of support? Use practical examples to show how a performer can maximise their stability.  4 marks in total	[4]		
	Sub max 2 marks for:			
	(line of gravity) extends from the CM (vertically) down to the ground/shows the application and direction of weight.			
	2 (base of support) the area on the ground enclosed by the points of contact of the performer's body on the ground or eq.			
	2 marks from: (must use practical examples)			
	3 by lowering CM (eg bending knees in order to tackle in rugby)			
	4 Increasing base of support. (eg widening stance in judo)			
	5 by making line of gravity/CM/weight within/central to base of support (eg standing straight/no leaning when rebounding in basketball)			
	6 Increasing body mass (eg sumo wrestling)			
(b)	Explain how a performer generates spin on a ball and describe the effects of spin on the bounce of a ball.  5 marks in total from:	[5]		
	(generation of spin) sub max 3			
	1 Eccentric/off centre/moment of force must be applied			
	2 Force applied outside CM of the ball			
	3 Gives ball angular momentum/motion			
	(effect of spin on bounce) sub max 3			
	4 Topspin makes ball shoot forward/accelerate off surface/move at a smaller angle to the surface			
	5 Backspin makes ball sit up/decelerate off surface/move at a greater angle to the surface			
	6 Sidespin has little or no effect on bounce of the ball / allows ball to keep on swerving in same direction			

Question Number	Expected Answer	Marks
(c)	Explain the factors that affect the Moment of Inertia of a performer. Describe how a sprinter uses this concept to improve the efficiency of the recovery phase of the stride action.	[6]
	6 marks in total:	
	(MI) Sub max 4 marks	
	(Definition) MI is the tendency of a body to resist changes in angular motion or rotation/is the rotational equivalent of inertia or mass	
	2 (Identification) depends on mass of the body.	
	3 (Explanation) larger the mass the greater the MI/or opposite.	
	4 (Identification) depends on distribution / distance of mass of the body from axis of rotation / MI = $\Sigma$ mr <sup>2</sup> / length of lever	
	5 (Explanation) further the mass is from axis of rotation the greater MI/or opposite.	
	6 (Explanation) Greater MI therefore there is greater resistance to rotation	
	(recovery)	
	7 Knee is bent / flexed.	
	8 Brings mass of leg closer to hip joint/axis of rotation.	
	9 This reduces MI of the leg.	
	10 Enables leg to come through faster/easier/ less force/effort required	

(d)*	Explain the methods used to reduce the forces acting on a ski jumper whilst descending down the ski ramp before take off.  Compare the ski jumper's use of the Bernoulli Effect during flight with that of a Formula 1 car when racing and explain how its use improves the performance of each.	[20]
	Level 4: – a comprehensive answer	[18–20]
	detailed knowledge & excellent understanding	
	<ul> <li>detailed analysis and excellent critical evaluation</li> </ul>	
	well-argued, independent opinion and judgements which are well	
	supported by relevant practical examples	
	very accurate use of technical and specialist vocabulary	
	Discriminators from Level 3 are likely to include	
	detailed knowledge and excellent understanding of the methods	
	used to reduce the forces of friction and air resistance acting on a	
	ski jumper	
	detailed knowledge and excellent understanding of the Bernoulli	
	Effect and how it improves performance of both the ski jumper and the formula 1 racing car	
	direct comparisons are made successfully between the Bernoulli	
	Effect in relation to the flight of the ski jumper and a formula 1	
	racing car when racing; other stand alone points may also be	
	made	
	sound structure and balance between parts of the question	
	Level 3: – a competent answer	[13–17]
	good knowledge & clear understanding	
	<ul> <li>good analysis and critical evaluation</li> </ul>	
	Independent opinions and judgements will be present but may not	
	always be supported by relevant practical examples	
	generally accurate use of technical and specialist vocabulary	
	written communication is generally fluent with few errors.	
	Discriminators from Level 2 <u>are likely</u> to include	
	good knowledge and understanding of the methods used to      description and air register as a skip of a skip o	
	reduce the forces of friction and air resistance acting on a ski	
	HIMPOR	
	jumper	
	good knowledge and understanding of the Bernoulli Effect and	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> <li>with some success, direct comparisons are made between the</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> <li>with some success, direct comparisons are made between the Bernoulli Effect in relation to the flight of the ski jumper and a</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> <li>with some success, direct comparisons are made between the</li> </ul>	
	<ul> <li>good knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car</li> <li>with some success, direct comparisons are made between the Bernoulli Effect in relation to the flight of the ski jumper and a formula 1 racing car when racing; other stand alone points may</li> </ul>	

Le	vel 2: – a limited answer	[8–12]
•	limited knowledge & understanding	
•	some evidence of analysis and critical evaluation	
•	opinion and judgement given but often unsupported by relevant practical examples	
•	technical and specialist vocabulary used with limited success	
•	written communication lacks fluency and contains errors.	
Dis	scriminators from Level 1 are likely to include	
•	limited knowledge and understanding of the methods used to reduce the forces of friction and/or air resistance acting on a ski jumper	
•	limited knowledge and understanding of the Bernoulli Effect and how it improves performance of both the ski jumper and the formula 1 racing car	
•	with limited success, direct comparisons are made between the Bernoulli Effect in relation to the flight of the ski jumper and a formula 1 racing car when racing; stand alone points are likely to	
	be more in evidence	
•	an attempt at structuring/answering the question but not necessarily with balance between parts of the question	
Le	vel 1: – a basic answer	[0-7]
•	basic knowledge & little understanding	
	little relevant analysis or critical evaluation	
	little or no attempt to give opinion or judgement	
	little or no attempt to use technical and specialist vocabulary	
•	errors in written communication will be intrusive.	
At	Level 1 responses are likely to:	
•	demonstrate basic knowledge and understanding of the methods used to reduce the forces of friction and/or air resistance acting on a ski jumper	
•	demonstrate a basic comparison the Bernoulli Effect in relation to the flight of the ski jumper and formula 1 racing car when racing; stand alone points are likely to outnumber direct comparisons	

		are bulleted)				
Methods used to reduce the forces acting on a ski jumper whilst descending						
down the ski ramp before take off.						
	(Force identification)					
1		Friction (between snow and skis				
	created by skis sliding over the snow acts against ski jumper					
2	Air resistance/Fluid Friction (acting against ski jumper as he travels down ramp)					
				tion of motion increases as ski		
3		jumper's speed increase				
-	luoo	To achieve a higher speed/velo	City			
(Red		<ul> <li>To jump further.</li> </ul>				
10100	;s)	(Reducing friction)				
4		Reducing roughness of/smooth	er surface of ski	e		
7		Use of wax on skis.	ci suriace or ski	3		
5		Making ski tracks/ramp icier/sm	oother send tria	l iumpers down ramp first/		
-		pouring water on ramp		, ,		
		(Reducing air resistance)				
6		Streamlining.		·		
		<ul> <li>creating smooth flow ar</li> </ul>	ound skier / red	ucing turbulent flow / drag		
		reducing profile drag / to				
7		(id) Reduce <b>frontal</b> / forward cr				
			(ex) Tuck position	on		
8		(id) Reduce surface friction of a				
		(ex) Specialist smooth ski clothi				
9		(id) Reduce turbulence behind s		south air flour babind altion		
Com	parison:	(ex) Tear drop shape/change bo	ody snape to sn	looth air now bening skier.		
COII	iparison.	Ski jumper	Similar/diff	Formula 1 racing car		
(Rer	noulli Effe		Sillillai/dill	l Official Fracing car		
10		ns an aerofoil shape	S/D	Spoiler/wing forms upside down		
. •	20ay 1011	ne an acroisii chape	0.2	aerofoil shape.		
11	Creating	angle of attack	S	Creating angle of attack		
	J	3				
12	Air travel	s further over top of ski jumper.	D	Air travels further under		
				spoiler/wing		
13	Air travel	s faster over top of ski jumper	D	Air travels faster under		
			_	spoiler/wing		
14		ow pressure over top of ski	D	Creates low pressure under		
4-	jumper	N. F		spoiler/wing		
15	, ,		S	(Bernoulli) Force formed from		
16	low press		D	high to low pressure  Bernoulli force		
10	16 Bernoulli / lift force upwards		ט	downwards/down force		
(Improve performance)				downwards/down lords		
17		ier in air longer	18 Increases r	uormal reaction		
19	Travels fu		18 Increases normal reaction 20 Increases friction between tyres and			
road surface						
21	Non para	bolic flight path		celeration/can go round		
	•	<b>-</b> .	corners faster			

Question Number	Expected Answer	Marks
	d Sport Physiology (Option B3)	
5(a)	Describe the physiological adaptations that you would expect to occur to skeletal muscle after the completion of a maximum strength training programme.  4 marks in total from:	[4]
	4 marks in total nom.	
1	Muscle hypertrophy (more total protein) / hyperplasia / muscle cells splitting / more fast twitch muscle fibres	
2	Increased concentrations /stores of PC / ATP	
3	Increased glycogen stores	
4	Increased tolerance to lactic acid / buffering	
5	less lactic acid produced for the same workload	
6	increase in levels of glycolytic enzymes	
7	Recruitment of additional motor units	
8	Training may reduce or counteract autogenic inhibition/tension threshold of golgi tendon organs	
9	Improved coordination (synchronisation of motor unit activation)	
(b)	Describe the main process involved in the Lactacid component of the recovery process.  5 marks in total from:	[5]
1	Lactic acid (accumulated during exercise) must be removed	
3	Pyruvic acid enters the TCA cycle / Krebs cycle / metabolised aerobically	
4	Broken down to carbon dioxide, water and (energy)	
5	Over 60% of lactic acid is used as a metabolic fuel	
6	Remaining lactic acid is taken to liver as lactate	
7	Then re-synthesised to glucose / glycogen	
8	Small amounts of lactic acid converted into protein / removed in sweat and urine / removed as a waste product	
9	The process takes about an hour	
10	Uses between 5 and 8 litres of oxygen	

(c)	Outline and justify the advice you would give to an endurance performer about the content and consumption of the precompetition meal.	
	6 marks in total Sub max 2 marks for content of the meal	
	Examples:	
1	Any carbohydrate example e.g. Muffins/crumpets with jam/honey/oatcakes/pasta with tomato based sauce/baked potato/cereal with low fat milk/banana/creamed rice and fruit etc	
2	Any other carbohydrate example	
3	Drink approx 500ml of fluid (water/sports drink/diluted fruit juice)	
	Sub max 5 for justification	
4	Prevent dehydration	
5	Prevent depletion of glycogen	
6	Maintain blood glucose	
7	Maintain electrolyte balance	
8	Avoid an upset stomach	
9	Have high carbohydrate meal (+200g) approx 3 hours before event	
10	Preferably eat carbohydrates with low GI / complex for slow release of energy	
11	Smaller/simple carbohydrate 1-2hours before event	
12	choose foods you like and that you tolerate	
13	Reduce fat / spicy food content in pre comp meal (avoids upset stomach)	
14	Decrease the amount of fibre in pre comp meal (avoids upset stomach)	
15	liquid meals empty more quickly from the stomach	
16	Continue to drink small amounts of fluid until start time to remain hydrated	

(d)*	Analyse the information in the table and determine which fitness components need to be improved. Devise an appropriate training programme and highlight how your programme will result in an improvement in the health and fitness of the student.	[20]
	Level 4: – a comprehensive answer	
	<ul> <li>detailed knowledge &amp; excellent understanding</li> <li>detailed analysis and excellent critical evaluation</li> <li>well-argued, independent opinion and judgements which are well supported by relevant practical examples</li> <li>very accurate use of technical and specialist vocabulary</li> <li>high standard of written communication throughout.</li> </ul>	[18–20]
	<ul> <li>Discriminators from Level 3 <u>are likely</u> to include:         <ul> <li>detailed knowledge and excellent understanding of the principles of training</li> <li>detailed analysis of the information in the table</li> </ul> </li> <li>the principles of training are applied successfully and an appropriate training programme devised</li> </ul> <li>detailed knowledge and excellent understanding of the health and fitness benefits of the training programme</li> <li>sound structure and balance between parts of the question</li>	
	Level 3: – a competent answer	[13–17]
	<ul> <li>good knowledge &amp; clear understanding</li> <li>good analysis and critical evaluation</li> <li>Independent opinions and judgements will be present but may not always be supported by relevant practical examples</li> <li>generally accurate use of technical and specialist vocabulary</li> <li>written communication is generally fluent with few errors.</li> <li>Discriminators from L2 are likely to include:         <ul> <li>good knowledge and understanding of the principles of training</li> <li>good analysis of the information in the table</li> <li>the principles of training are applied with some success and a broadly appropriate training programme devised</li> <li>good knowledge and understanding of the health and fitness benefits of the training programme</li> <li>an attempt at structuring/answering the question with balance between parts of the question</li> </ul> </li> </ul>	

Lev	el 2: – a limited answer	[8–12]
•	limited knowledge & understanding	
•	some evidence of analysis and critical evaluation	
•	opinion and judgement given but often unsupported by relevant practical examples	
	technical and specialist vocabulary used with limited success	
•	written communication lacks fluency and contains errors.	
Disc	criminators from L1 <u>are likely</u> to include:	
•	limited knowledge and understanding of the principles of training	
•	some evidence of analysis of the information in the table	
•	the principles of training are applied and with limited success, a training programme devised, aspects of which may be	
	appropriate, limited knowledge and understanding of the health and/or fitness	
•	benefits of the training programme	
	an attempt at structuring/answering the question but not	
	necessarily with balance between parts of the question.	
•		
Lev	el 1: – a basic answer	[0-7]
•	basic knowledge & little understanding	
•	little relevant analysis or critical evaluation	
•	little or no attempt to give opinion or judgement	
•	little or no attempt to use technical and specialist vocabulary	
•	errors in written communication will be intrusive.	
At L	evel 1 responses are likely to:	
•	demonstrate basic knowledge and understanding of the principles of training	
•	demonstrate little relevant analysis of the information in the table	
•	the principles of training are applied and, with limited success, a training programme is devised, aspects of which may be broadly appropriate,	
•	demonstrate basic knowledge and understanding of the health and/or fitness benefits of the training programme	

are bulleted)		
	Fitness components	
1	High RHR indicates aerobic capacity need to improve	
2	Bodyfat test score suggests body composition needs to improve	
3	Sit and reach score suggests lower back and hamstring flexibility	
	needs to improve	
4	Sit up score suggests strength endurance of abdominal muscles needs	
	to improve	
5	Wall squat score suggests that strength endurance of the quadriceps	
	needs to improve	
6	12 minute run score suggests aerobic capacity needs to improve	
	Training programme	
7	Improve strength endurance with circuit training / interval training	
	e.g. squats, burpees, sit-ups, press-ups etc	
8	30:60 secs work:rest	
	Work: rest ratio 1:2	
9	Improve strength endurance with weight training	
	e.g. leg extensions, bench press, squats etc	
10	High reps, low weights	
	High reps 10+	
	Low weight below 70% 1RM	
11	2/3 sessions a week	
12	Improve <b>flexibility</b> by perform static (passive/active)/PNF etc flexibility	
	work (during cool down periods)	
	other examples eg ballistic	
	detail of flexibility method	
13	improve aerobic endurance with <b>continuous training</b>	
. •	long duration and low intensity	
	• 20mins +	
	Below 70% VO <sub>2</sub> max	
14	fartlek	
	form of continuous training with low intensity exercises	
	interspersed with high intensity exercises	
	eg jog, sprint, jog etc / running over different terrains	
15	Interval training / repetition running (work rest intervals/distance)	
10	intervals to improve aerobic capacity	
	work period 3 min plus	
16	2/3 sessions a week	
17	use of training target heart rates	
17	• 60 – 80% MHR	
18	Change activity to maintain variety eg cycling, swimming, running	
10	General	
19	Keep training diary	
15	to monitor intensity/duration/repetitions/work:rest ratios	
20	Principles of training- overload; progression; variance	
20	overload to increase amount of work body does	
	· ·	
	<ul> <li>progression to increase workloads once adaptations have been made</li> </ul>	
	variance to maintain motivation / prevent RSI	
	specificity      seed a ration	
	moderation	
	reversibility	

21	Set realistic targets	
22	Re-test to monitor improvement	
23	Periodisation	
	Microcycle / Mesocycle / Macrocycle	
	Health improvements	
24	Training programme should reduce RHR	
25	Increase in cardiac output / stroke volume	
26	Overall improvement of the VO2 max of the student	
	<ul> <li>Increased lung capacity/RBC/mitochondria/capillary density/ or</li> </ul>	
	equiv.	
27	Reduce risk of CHD / atherosclerosis / arteriosclerosis / hypertension	
	Reduced amount of LDLs / Increase in HDLs	
28	Reduce risk of obesity/ ( type II) diabetes / % Body fat should decrease	
	Increase in lean body mass / muscle hypertrophy / negative	
	energy balance	
29	Reduced risk of osteoporosis	
	Maintenance of bone density / calcium deposits	
30	Reduced risk of lower back problems / improved posture / joint stability	
	Increased core stability / muscle / ligament strength / flexibility	

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