

Exemplar: Component One

GCSE (9-1) Physical Education

Pearson Edexcel Level 1/Level 2 GCSE (9-1) in Physical Education (1PE0)

ALWAYS LEARNING PEARSON

GCSE (9-1) Physical Education 2016 Exemplar on SAMs – component 1

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Paper 1

Question 1

Learners should be encouraged to attempt all of the multiple choice questions rather than leave a 'blank' response. Learners should also be aware that if they select two options without clearly crossing through one of these, the response will be marked as incorrect.

Many learners were able to achieve maximum marks for this section. Where incorrect responses were given this was often in relation to Q1(b) which asked learners to identify the correct composition of inhaled air. Many opted for Option B 'oxygen 16%, carbon dioxide 4%, nitrogen 79% which would have been correct had the question asked about exhaled air. It is possible that this error was due to lack of focus on key words or information given in the question, in this case 'inhaled air'. Many learners showed good practice through highlighting key words to emphasise the critical parts of the question.

Question 2

This question was well answered overall. The question focused on the protective function of the skeleton and therefore overlaps with content from the current specification.

Marks were awarded for assessment objectives AO1 and AO2. In this example the learner gains one mark for AO1 – the knowledge that the skeleton will reduce the likelihood of injury. No further credit was given as the example is too vague for credit, i.e. what part of the skeleton is 'protecting', and what is it protecting during the rugby tackle?

2 Protection is a function of the skeletal system.

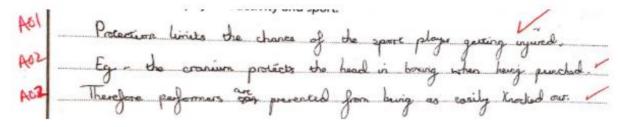
Explain, using one example, how the skeletal system's protective function aids performance in physical activity and sport.

In Rughy if you are tackled, your bones will near help prevent your body from being badly injured as it absorbs the impact. This mean you won't break anything as easily

Most learners achieved at least one mark for this response, either for AO1, or AO2. Some gained credit for simply saying that the skeletal system protects from injury in sport, whilst others went straight into an example of how this occurred, e.g. the ribs protecting the vital organs when tackled in rugby. In the example below the learner achieves two marks, for reference to injury and application to sport. The impact of this protection in terms of performance, however, is not given for the final mark.

For escample, in a righty game you may get tackled and thrown take ground. If it was not for your skeleon, your heart, lungs and that organs could get easily damaged as they would not be protected by your Ash rotage and general skeleton. It is also very important to protect the brain.

In the example below the learner gains maximum marks for identifying the reduction of risk of injury and applying this knowledge to performance. As the command word used in this question is 'Explain', learners are expected to provide a developed reasoned response. The command words that will be used in the assessments can be found in the specification, appendix 6, page 56.



Question 3

Learners were asked to analyse the role of the ball and socket joints when throwing the discus. This question addressed each AO, awarding one mark for each. Learners needed to use the image to establish an appropriate joint and then link this to the range of movement allowed by the joint that was required when throwing. The image was given for those learners unfamiliar with the activity. Information about the movement could be gleaned from the position of the discus thrower.

In this example the learner gains one mark for the specific range of movement linked to the discuss thrower.

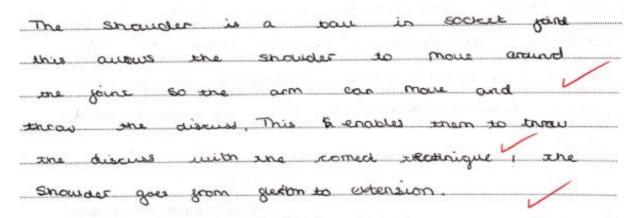
	plete to throw t	ne discus			-	n the body allows	
	Sharder	is ex	enson	ю	Yusion	The bar ar	
Move						the discuss	
Mou		thoon					Ę-



The response below provides additional analysis, not only identifying the hip to allow a greater range of movement, but also the impact of this in generating greater power and therefore a further throw being achieved. This response achieves two marks.

The ball and sochet Joint in the hip allows more rotation from the body, therefore there is a wider range of movement in the body creating more power, so the discus can be thrown further. ADZ

In the final example below the learner achieves maximum marks. They identify the shoulder as being critical to the movement, the movement at the shoulder joint and the impact of this on performance. This learner clearly analyses the movement, breaking it down into its component parts.



Question 4

This question tested learners' ability to apply their knowledge of lever systems. This is a new area of specification content, therefore learner responses varied quite markedly, presumably reflecting their opportunity to study this new topic area. Physical activities will often be used to provide appropriate context for exam questions. Where these activities are 'non-mainstream' support will be provided in the question to ensure the learners have the information they need to be able to apply their knowledge. What was critical here was that learners were told this was a first class lever system, using their knowledge of first class lever systems learners could then address the question even though they may not have a knowledge of rowing.

Some learners were able to state the mechanical advantage of first class lever systems and therefore achieved a minimum of 1 mark. If they were able to apply this knowledge to the rower, they often achieved all three available marks.

The response shown below, whilst accurate, lacks the required detail for credit and therefore scored 0 marks.

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Analyse th	e role of the f	rst class leve	er system	in affect	ing the i	rowers' p	perforn	nance i	n
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								8.	
	nple the lear duce a smal					ng that	the ro	wers v	would only
rigure 4.									
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exerted	l by	the	m	yr .	to	are	re	a	greater
for o	it the	end	Œ 1	the 1	<u>car</u>	allow	ring	the	boat
to tr	raye) a	t great	ter ·	speech	٤.		J		21127
									advantage of
first class le lever syster	evers from a m in use.	rower's pe	erspecti	ve and h	nas beg	jun to d	describ	e the	first class
~								7	
The re	ower o	an ap	PH 1	r re	lati	vely	smo	s an	himon
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Locad	s leve	r-the	Sul	wum	s I	setw	een	· Une	/



This question asked learners to state the function of the triceps and quadriceps and provide a specific sporting movement where these actions would occur.

Many learners were able to gain marks here, however many failed to do so as their answers lacked the required detail. It is essential when describing muscle action to make reference to the joint action and the joint where this is action is taking place. In the example below the learner omits reference to the joint in (a) therefore gains 0 marks for this part of the question. The examples provided by the learner in (b) are also vague, and referring to the follow through would have helped clarify the action.

Muscle	(a) Function	(b) Specific sporting movement
Triceps	Extention of arm. (1)	throwing a ball in rounders.
Quadriceps	flexion of leg 1	sprinting TV.

This example gains three marks. The muscle function has been identified (joint action and joint) and a clear example given for rugby.

Muscle	(a) Function	(b) Specific sporting movement
Triceps	Extension at the	Hand o'st rugby.
Quadriceps	expension at the knee.	lunning or Sumpling in the air. TV (1)
	Table 2	so said and 3 min

Question 6

This question asked learners to consider the role of two components of a third class lever system when lifting a weight. This was designed as a very accessible question which

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learners found more straightforward than the earlier question on first class levers. The quality of responses varied. In this example the learner achieves one mark for correctly identifying that the elbow takes on the role of the fulcrum during the movement.

(i) Fulcrum	1100					
-11						1/3
Elbou) v					

(ii) Effort						
Hard						
Hard		***************************************	***************************************			
	aximum marks for co		nking the c	omponent	of the I	ever
tem to the body and	d its role in lifting the	e weight.			/ (2	ever
tem to the body and		e weight.			/ (2	ever
tem to the body and	d its role in lifting the	e weight.			/ (2	ever
tem to the body and	d its role in lifting the	e weight.			/ (2	ever
tem to the body and	d its role in lifting the	e weight.			/ (2	ever

Question 7

This question continues the theme of movement analysis. Learners are presented with two images. These images show a gymnast standing upright on a beam and then the same gymnast performing a splits position above the beam. This will be a standard format for this style of question i.e. learners will need to look at the first picture and



determine the muscle action at a specific joint(s) to move into the position shown in the second image.

Learners must clearly state which picture they are referring to when they answer the question so that examiners can determine whether the learner is able to analyse the image. Learners must also use appropriate technical language.

In this example the learner does not state whether this is in relation to position A or B, therefore it is not clear if the learner knows that position B is plantar-flexion and as a result no credit can be given for the first marking point on the mark scheme. In their description they make reference to the tibialis anterior extending, as this is not appropriate technical language, no credit is given.

the gostrochemious is antagonistic to the tibiariis anteria, as the gostrochemiaus presses contracts the tibiariis anteria extends (causing plantar) flexion of the foot.

In this example the learner gains 1 mark for correctly identifying the action at position B.

The tibeals interior and books of gastronemus are on altagonistic pairs In position B the blooks standard plantar flexion, I caused by the gastronemius flexing and the tibeals interior extending

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Question 8

Whilst the cardiovascular system is on the current specification, learners do not currently need to know about the structure of this system. This question tests a new area of knowledge and has resultied in lower scores being achieved than is likely, once learners have had the opportunity to study the content in more detail.

In this example the learner achieves 1 mark for correctly identifying that the blood flows out of this side of the heart to the body.

The structure labelled A in Figure 7 is the	V system K
This blood vessel carries	blood out
of the heart to the 50d4	
Jon of State of	

In the example below the learner correctly identifies the type of blood vessel but not its name therefore no credit can be given for this part of the question. However, they do correctly identify that the blood is oxygenated and that this blood is travelling to the muscles. Although the mark scheme states 'body', muscles in this context the response is acceptable as the learner clearly understands this is towards the body rather than lungs.

Figure 7.			neart III
The structure labelled A in Figu	ure 7 is the	art	ery.
This blood vessel carries	Oxygenested		blood out
of the heart to the	nuscles		



Question 9 was again related to the cardiovascular system but covered familiar content for learners. Learners had to identify and then provide a rationale for their identification of the different heart rates (before and after exercise).

Learners tended to correctly identify the before and recovery heart rate thus scoring two marks in (a) but had more difficulty presenting a clear reason for their answers. For example, in this response the learner re-identifies the values (good practice so it is clear to the examiner).

In this example the learner gains the first two marks for (a).

72 bpm before spen during receivery.

(2)

Of the two heart rates learners appeared to find it more straightforward to justify recovery heart rate than resting.

In this response the learner is able to provide a reason in both cases. The first reason is, however, considered too vague for credit; why doesn't the heart need to work as hard? The second reason for recovery of the heart is particularly clear. This response gains three marks.

During recovery - 80 bpm.

(b) Give reasons for your answers.

72 bpm is before any exercise is dene as it is nhe lowest value and deepens at the heart does not need to work hard (60 bpm) is during recovery as it is lower than the heartrate for during exercise as muscles do not need as much oxygen but it is higher than before exercise as they need to recover.

This question asks learners to explain why tidal volume increases when a performer takes part in physical activity. As with the previous question this should be familiar content for learners as this topic features on the current specification.

Answers reflected on the increased demand for oxygen to meet the increased demands of the activity and/on on the increased energy requirement. Most candidates kept their responses within the question context, i.e. during physical activity rather than after, therefore there was little mention of oxygen debt.

In the example below the learner is able to achieve some credit despite incorrectly linking tidal volume to blood flow. Credit is given for the knowledge that during exercise we need more oxygen.

Tidal volume is the amount of flow blood that passes a certain point every second when the you take part an physical activity the demand for oxygen is higher and the blood carries the oxygen. Therfare more blood is pumped around your body quicker no so tidal volume uncreases.

In this response the learner gains 2 of the available marks. They identify the need for increased energy due to the exercise and therefore the need for additional oxygen.

Tidal Volume, which is the number of regular breaths takes in in a minite, increases because as exercise is done more oxygen is needed to regit more as more energy a reeded voice more cos is needed to get tid of

In this final example the learner achieves all available marks.

the so book or worky harder which was by read more energy noisy the need more oxygen. To satistic this need today where we have oxygen to be the need today to be the need to be to the oxygen to be the second to be the need to be to the oxygen to be the second to be the need to be to the oxygen to be the need to be to the need to be to the need to be the need to be to the need to be the need to be to be to be the need to be to be to be the need to be to



Learners experienced greater difficulty with this question than the previous question. Although the focus was still on the respiratory system the current specification does not cover gaseous exchange in the detail required to fully address this question, in particular reference to the relative concentrations of oxygen in the two structures resulting in the transfer of gases between them. Despite this some learners gave reasoned responses, possibly drawing on relevant knowledge from other subjects.

In the example below the learner gains 1 mark for recognition that oxygen is transferred between the alveoli and the blood.

11 Explain how the alveoli and capillaries work together to provide the muscles with the oxygen they need for recovery after a long-distance run.

The alveoli and capillario are things in the lyo. The capillario are way small tubes on the alveoli transfer congentitle the blood. They provide the blood with ongles whe soften are into your last. The alveoli have large soften are to be of oxygen can brown into the blood.

The capillario troupont the blood quickly so the oxygeneral blood and the blood quickly.

This response gains 2 marks. The learner identifies the thin walls of the alveoli as key in allowing oxygen to move into the capillaries, and then the role of the capillary to carry the oxygen to the muscles. Without reference to the differences in oxygen gradient, learners cannot gain maximum marks as there needs to be some explanation regarding how oxygen transfer is possible.

Incide the much stress one mulians to the blood

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Question 12

This question was designed to be an accessible question across ability ranges. Learners had to identify two by-products from aerobic respiration. Most learners were able to identify at least one by-product. A popular correct response was carbon dioxide.

- Casbo	n dioriae	
	ses were linked to lactate/lacti xt to guide their answer, i.e. th	
Larvic acid	in muscles	K
Many learners gained bo	th available marks for this que	
Carbon	diande	
1 1.64	MO (IV	

Question 13

This is a 6-mark question. This question is split with 3 marks being awarded to each component of fitness. Learners were asked to assess the relative importance of muscular endurance and body composition to a 100 m sprinter. Although familiar content, the question was made more complex by use of the command word 'Assess'. This requires learners to reach a judgement, in other words they needed to decide how important each component of fitness was.



In the example below the learner is insufficiently clear to gain credit. In (i) they identify that muscular endurance is not very important but do not provide a clear enough reason to justify this, i.e. there is no explanation of the value of muscular endurance and therefore why it wouldn't be important to the 100 m sprinter. In (ii) 'right type of body' is too vague, does this mean somatotype? Credit is given however for link to need to be muscular (as a component of body composition).

(i) Muscular endurance Muscular endurance is not to a 100m spnnter as	
stamina Muxular sme	uigh would be more
imperant to them as u	is a short distance.
(ii) Body composition	(3)
his is imperant as the	ey must have the
right type of bedy to	run Usually slim but
very muscular It is in	. /
	ve a very dyperent
soom runner war na	/ //

The response on the next page gains 4 marks. The learner begins by stating whether the component of fitness is important and then goes on to justify this. To gain maximum marks a little more detail was required. For example in (i) this could have been expanded by stating the race was over quickly and therefore muscles did not need to contract repeatedly. In other words something more about what the component of fitness was useful for, and then explaining why that wasn't needed in the 100 m sprint.

A 100m sprinter	dosalt med m	nick isn't a
long dissonce or	long time en	engone musices
don't need much		
(ii) Body composition		
		(3)
Body composition	is important	a they need
to be light to	o be able to	nun guirey
love energ aux	need to have	enough muscu
to give them to	ne power and	speed.

Learners' knowledge and the ability to apply that knowledge was tested through this question. In (a) learners had to recall the meaning of the term agility and in (b) give an example of its use in basketball.

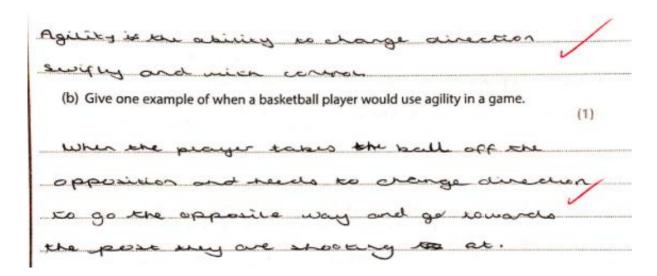
In part (a) learners often omitted a required part of the definition. In many cases this was 'control'. Part (b) of the question was answered well with the majority of learners scoring the available mark. Where this was not the cause this was normally due to a lack of clarity in the example.

This response gains 1 mark for the example of use of agility but does not gain the mark in (a) as there is no reference to 'control'.

doing	some	thing	04	Speed	whilst
being	able	60	cheinge	dire	ction.
(b) Give one	e example of wher	n a basketball pl	ayer would use	agility in a gam	e.
Uze	agility	wah a w	de	hhlinu	04.64
an o	enas an	t	· · · / · / · · ·	doing	nelpa
dices	1 100	te land	man	Crecinic	geing und get
ULITA	101	00 100	MAM		WW MOR



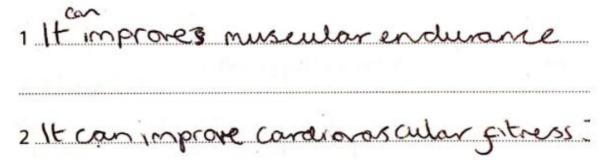
This response gains both available marks. The definition makes reference to all the required elements of changing direction, at speed and with control and gives an example of the use of agility.



Question 15

Part (a) asked learners to state two advantages of circuit training. This was a very open and accessible question as there were a number of ways that the learners could access the available marks. There were a range of appropriate responses. Some learners referenced the adaptability of this method of training whilst others referenced the variation it provided to prevent boredom, or the ability to work at high intensity, whilst varying muscles groups to avoid undue fatigue. Most learners scored at least one mark for this part of the question.

In this example the learner fails to gain credit due to lack of clarity in their response. For example, they do not emphasis that this training method can focus on any component of fitness. It is this fact that provides the advantage rather than just the components of fitness it can improve.



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In this response the learner gains two marks for 'easily changed to meet the performers ability' and for 'not boring'. Whilst the example below that gains the marks for identifying the versatility of the training method in relation to areas of fitness and the person's individual needs.

1 can easily be charged to meet a performers ability level.
2 Not boring like continuous training.

1 Improves different areas of fitness /
2 can be adapted for the person's needs /

Part (b) provides opportunity for learners to demonstrate their ability to use data. A table is given and learners are asked to analyse the data in the table to determine the trends for each fitness test. When asked to use data to determine a trend, learners simply need to identify the next likely data set, e.g. will 'Miriam' run a shorter distance, the same distance or further in the Cooper's run, based on the data available.

The majority of learners were able to provide some analysis of the presented data, most indicating whether fitness had improved or not. Ideally some evidence from the table would be used in the analysis to support any statements made.

This response fails to gain credit as specific tests are not identified and the global statement about all improving is incorrect as the 35 m sprint scores are slower.

over the 6 weres mirian improved in each aspect massively. The improved each week more of or less the Same in the each gitness text



This learner only makes reference to one of the fitness tests therefore limits their marks to one. It is important that learners use the question instructions to ensure they can access all marks, i.e. this question states 'determine the trends for each fitness test'.

The 35m sparit is taking taking longer longer to compete so do she is taking longer to run the same distance so she is showing lown.

In this example the learner scores 2 marks. They clearly identify the trends for the Cooper run and vertical jump test. Reference to the increase and what is increasing, i.e. running distance and height jumped, shows good understanding of the tests and test data. However, they have misinterpreted the data for the 35 m sprint, indicating progress rather than a drop in performance.

The coopers on she of mining start 50~ more each cosel show a versi is aeroti fitness. On the worker's jump tot she's jump' 0.5c~ Life each their show a versi is power. On 3Th sport the stepses of start the stepses the same, the rade start progress of going p02 the same, the rade start progress of going p02 the same, the rade start progress of going p02

In the example below the learner scores all the available marks as they correctly comment on the data for each fitness test, (despite the error in the statement regarding the 35 m sprint time).

Over the six weeks, Miriam increased her cooper's run score by 50m and can now run 1950 cm. She also increased her vertical jump score by 2.5cm. However, her 35m sprint time went december by 9 seconds which means she's getting slower.

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For (b) (ii) learners were asked to justify a station that should be included in Miriam's circuit to improve her netball performance. Therefore, learners needed to first identify a relevant station and then justify its inclusion. To address this part of the question learners should be guided by the information already provided. For example, they might include shuttle runs as the fitness test scores indicate Miriam's speed is getting worse.

Many learners gained some credit for this question, often linking to aerobic endurance.

In this example the learner achieves 0 marks. Credit will not be given for use of fitness tests to increase fitness. Fitness tests are used to measure fitness, not as a training method.

The cooper's run is great by it shows increase both he Cordinascular system and p. muxular endurance at the same time, con princips it

Whilst the learner does not gain credit for identifying a suitable circuit, their justification for working on this aspect of fitness clearly links to the question context and provides a 'netball' advantage and therefore gains one mark for this section of the response.

Skupping The vertical jump hest means miriam can increase her explosive power when jumping which would optimise her performance as she will be able to jump higher to catch the ball, intercept, block shots and also jump when shocking.

In this final example the learner achieves both marks. They identify an appropriate station and qualify this in relation to her sprinting getting worse and justify the choice by giving a clear example of the benefit to netball performance.

sine could sprint shuttle runs to improve her sprinting (because she is getting woose) so in netbour sine can sprint to coatch or intercept a bour.

Part (c) of the question required learners to explain how progressive overload of a triceps dip station could be used to improve muscular endurance and muscular strength. Thus learners needed to consider the different ways one would normally increase muscular endurance (high reps, low loads) and then apply this to a triceps dip station, and repeat the process for muscular strength. Learner knowledge of how to improve muscular endurance was more readily applied than muscular strength to this question context.



It is very important that learners read questions carefully and ensure their response matches the question context. Credit was not given for other 'stations'.

She would do brief cuts jat a Skg weight for 30 seconds as she gets stronger the can keep inveasing the weight so she becomes stronge.

In the example below the learner gains one mark for identifying an increase in the number of the dips in (i). As a specific example is not given and no reference is made to 'gradually', the remaining marks are not achieved, as to apply progressive overload there needs to be a gradual increase in work load. The learner also gains two marks in (ii) for identifying how additional weight could be added and a reduction in the number of dips (20 in (i) reduced to 5 in (ii)).

She could start with 20 trices dips with a 30 sec break ofter befor she repeates it several times. To use over load she could increase the number of dips, decrease the time for rest or increase the number of sets.

(ii) the muscular strength in her arms.

(3)

and an amout 3-5 dips, each week she could in crease the weight she uses.

The following response also scores 3 marks overall for this question, however, these marks are all achieved for part (c) (i).

tach trui	ring rection	she could incre		(3)
bud tonour	+ of trice	paips the a	ase the a	& time
will gradu	alunget used	to to been va	(00), so her	tricapi
1st sessio	- do 2 50	to op over use	of more (For.	esoph
after their	do a est	ts of 10 mps	ona eadse	1si or
		- FU	3	
(ii) the muse				
(ii) the muscu	lar strength in her arr	ns.		
Each traini	ng sevion d	ne could with		(3)
of times he	due, Has be	cup dips withour	Increase FM	Choore
	1000111		ande	
1 4 4		up orps writegor	- 01. LC 150	her
triaps es	ore able to	cope with more	pressur on th	em.
triaps es	ore able to	cope with more	pressur on th	em.
triaps es	For example	cope with more 1st session old numbers the prep	presson on the	em.

In this example the learner achieves two marks for each part of the question. In both instances they identify how to create overload and give an example. The only missing aspect is the link to 'gradually'.

	2
(ii) the muscular strength in her arms.	
	(3)
She needs to use a heavier weigh	ix. This means she
do change the taching	boly wide Wel
1)	4-0 -1 13



This question asked learners to state two ways that quantitative data from fitness testing can be used when planning a personal exercise programme (PEP). Whilst specific focus on data is new to GCSE PE, learners will have experienced using data to help inform their PEP's for the current specification. Overall learners used this knowledge well and tended to gain at least one of the two available marks for this question.

This response identifies the value of fitness test data so the performer knows their areas of weakness. No credit was given for the second statement, as this is too vague for identification of current fitness level and could easily be interpreted as a repeated point in relation to strengths/areas for improvement.

1 See what need improving
2 See what you cur
Capable of.

When addressing questions that ask for two reasons or examples, it is important that learners ensure their responses are sufficiently different to gain the available marks. In the example below the two statements are making the same point, i.e. that the data allows the individual to measure their strengths and areas of weakness and therefore only one mark is awarded.

Lee what your newwer me

so that you know what to myrouse on.

See which was will soo not

need warmy or in a such gratish

to others. (Total for Question 16-2 met)

In this example, however, the statements provide clearly different uses of fitness testing data and therefore both marks are achieved.

1 You can use it to assist which areas so your

fitness your PEP is going to four or to improve.

2 You can also use quarterive gates to see

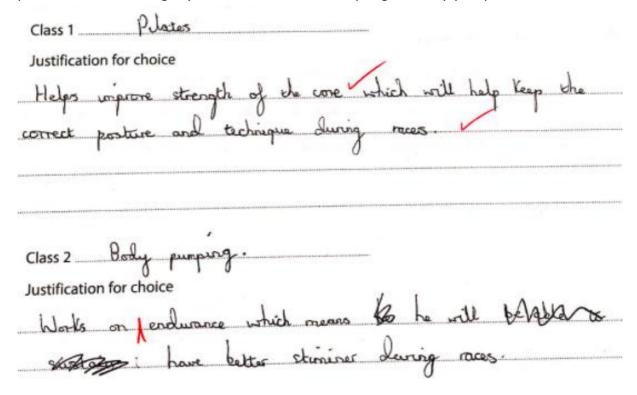
townien you have improved by the end open

PEP. (Total for Question 16 = 2 marks)

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Question 17

For this question learners needed to apply their knowledge, and make a judgement about the best types of exercise class, from a choice of three, that would most benefit a cyclist. Provided learners gave valid responses for their selection, they would gain credit. Not surprisingly the most popular choice was spinning. The justification of the choice linked to the specificity of the class to cycling. Body pump and pilates were selected as a possible class with slightly more learners overall opting for body pump.



The response below gains one mark for the justification of body pump. The learner links the use of body pump to increasing muscular strength and muscular endurance, either component of fitness would have gained them credit. To gain the second mark, the potential increase in strength or muscular endurance needed to be linked to cycling. Credit is not achieved here as the link is between cardiovascular fitness rather than muscular endurance. One mark is also achieved for the justification of spinning as an appropriate exercise class due to the development of cardiovascular fitness or working the same muscles required in cycling to increasing their muscular endurance. The impact of this improvement is not given and therefore the response does not gain further credit.



	Body pump				
					_
18 Bocky	pump will	nuruse (muscle 5	trongth a	nd (enclusion
m au	g the bode	y to help	Ashran	be ab4	e to
cycle for	longer.	٧.			***************************************
Class 2	Sainnine				
	Spinning	1			
	on for choice	\ Var			tho.
This uses	the son	ne mey	iley as	cyclig so	_113
will more	ege his my	wayar	encurenco	and	hij
	war fitter				as ya
do sma	nicy.				

It is always a good idea when giving two examples within a question to ensure they are different; this learner does this as they link the exercise classes to muscular strength, muscular endurance and CV fitness.

The example below is awarded three marks. 'Spinning to improve his cardiovascular endurance so that he can cycle faster for longer'. The learner justifies the choice by linking to a relevant component of fitness and gives the impact of this on performance. In the second part of the response the learner gains one additional mark, to gain the fourth mark. There needed to be a clearer link between strength, power and cycling faster.

Class 1 Spinn Justification for cho This Will	ice	his	cal	diev	lascula	
endarance						
cycle fast	er For	1019	'er			
Justification for choir this will	strength v	xhe				his
body, malking	5/10	m C	LOW	er fo	M i	1 415
Eycling, Mo	aking hi	11 10	510		NAME OF THE OWNER, WHEN PERSONS ASSESSMENT	

This is the first of the levels based questions on the paper. Learners are credited with a maximum of 9 marks: 3 marks for their knowledge of the topic area, 3 marks for their ability to apply this knowledge to the question context, and 3 marks for considering the impact of each of the applied points they make. The mark scheme provides some indicative content; parts of responses that form the basis of popular learner responses, however this content is not exhaustive and learners' may present other correct, relevant information and this would be credited.

This question asked learners to evaluate the extent to which the redistribution of blood flow is necessary during a hockey match; content that overlaps with the current specification.

In this example the response is placed at level 1. It gains 1 mark for AO1. The learner makes reference to vasodilation, stating that this increases the diameter of the arteries. Whilst there is an attempt to link to the game of hockey 'in match situations the intensity of the game varies' but this was not sufficiently expanded on, e.g. through link to how blood flow is affected, to gain further credit. Had the learner expanded this point successfully they would have gained credit under AO2 (application).

The reciseribution of blood reiflow is necessary during a hockey match:

*widens the chametre of the arteries, so oxygenated blood is supplied to intensity and high untensity varies in match situations, and by the intensity rarying redistribution of blood flow is affected.

*Without rascallation the diametre of the arteries wont wicien, which means poxygenated blood cant be supplied, which will cause an increase in lactic acid.

In conclusion, if there wasn't any redistribution the picyers wouldn't be able to play games. To.

The next example response is placed at level 2, 5 marks. It gains two available marks for AO1; more information could have been given regarding vasoconstriction and vasodilation. There is evidence of some application of knowledge, for example the redistribution of blood flow away from the digestive system during activity and the variation of rate of redistribution of blood flow as the intensity of the game varies.



Greater detail could have been given here about the impact of not being able to supply the required oxygen to the muscles in terms of performance. Overall the learner provides mostly accurate knowledge, uses some technical language, attempts to apply some knowledge to the question context and attempts to provides some impact/conclusion to the points being made and therefore meets the demands of a level 2 response.

Aoi	18 Evaluate the extent to which the redistribution of blood flow is necessary during a hockey match? OUN VANNA COS VOSCULOS SHUMBS
A ***	Redistribution of blood flowly necessary because the
	arms and legs now need most g the blood
	in the body rasher than the stomach where
AOZ	it are usuary stays argung food. The extra
	blood flow to the arms and legs results in fuster
P/A	
69	
	on the energy reloca for the muscles In
	this area as their blad vesses open up mare.)
	1
	However, the blood is not only recover in theye areas.
	As howey is a game that we almost all g
	the body to play so not many blood vessely
	can close down around the non-major organs. Also the
	Pau at which She plays constartly changes as
KIL	Se Speak up and slows down so the blood shunsing
	Shall incress or reduce winist keeping enough brown
	To the brain one hear. This may eyect tacutical
	awareness at the end of a game if the oxygon
	dep debt , happered due to lacke acid then the vessey to this wea will be open.
	vessey to this wea will be opa.
	I there have the real of the second of
	Word were and play the best (Total for Question 18 = 9 marks)
	Word well and play the best (Total for Question 18 = 9 marks)

GCSE PE - Exemplar Component 1

The final example shown below achieves level 3, 7 marks. The learner is clearly knowledgeable about the topic of redistribution of blood flow, although there are some errors in knowledge, (for example, vasoconstriction is the closure of blood vessels), there are sufficient accurate and relevant statements, with a largely appropriate use of technical language to satisfy the requirements of AO1. Specific examples are given to demonstrate application of knowledge to the question context, for example, the learner describes the need for additional oxygen and therefore increased blood flow to the muscles during intense periods of paly during the game, they also identify the impact of this on performance.

18 Evaluate the extent to which the redistribution of blood flow is necessary during a hockey match? Vasculer rechrected

To gain a higher mark within the level more precise application and evaluation would be required.

Some candidates provided a bulleted list, whilst this might be sufficient to demonstrate knowledge this is unlikely to allow them to expand their responses to demonstrate application and evaluation therefore bulleted lists are not recommended.



This question also covers content that overlaps with the current specification. Learners were asked to evaluate whether a 50 m front crawl swimmer should use interval and weight training to improve their performance.

An evaluation requires learners to make an informed judgement. An effective approach to this type of question would be to consider the merits of each individual method and then if there were advantages of using both, i.e. if offering both methods of training would have a greater positive impact on performance than just using one of the training methods in isolation.

To gain maximum marks learners would need to clearly demonstrate their understanding of the two types of training methods, give specific examples of how each method could be used to aid swimming performance and then decide if there were greater advantages through using both methods.

The response below is an example of a level 1 response. The learner has demonstrated their knowledge through descriptions of both methods of training. There is an attempt to apply knowledge, but this would have been clearer had the learner given an example of a particular muscle/muscle group required in swimming.

19 Evaluate whether a 50 m front crawl competitive swimmer should use a combination of interval training and weight training to improve their performance.

They should use a combination this is because interval training can be made more specific than weight training by the pact that it can be done in the pool. Interval is series of work being done however with rest in between them times. I his is useful to work on the technique of 50 m front crowl. However weight training is tused to increase nuscular how strength or endurance. This will help the strim swimmer be able to perform the 50 m front crawl faster if their muscles are stronger and are able to perform at a high level for larger. Weight training can half target certain muscles to help for specific muscles during swimming.

GCSE PE – Exemplar Component 1

This response is placed at level 2. Some information is given about each method of training, although this is minimal. There are lots of specific examples where each method could be used to develop swimming fitness, and an attempt to conclude, providing a justification for the use of both methods of training.

19 Evaluate whether a 50 m front crawl competitive swimmer should us of interval training and weight training to improve their performance	se a combination e.
A50m front crowl race is a short, as as	CONTRACTOR OF THE PROPERTY OF
thearing it does requires alot of speed of	and power to
complete it as jost as possible.	AO2
Weight training would be useful due to to	e fout that it
could help improve muscular strength mean	
Swimmer would be more powerful and able 1	
further through the later with each strone, no	
can complete the 50 min les a smaller an	and of time.
Internal training is short periods of internal by a period of rest and recovery	ve work forland
is used to improve anoerobic gitress which	is what reasoned
uter dang a short intense roce like the 50m-	An example on
Internal training would be summing 50m and then is	vitina sora minute.
and this would help improve arose sites	si sa tanta cumano
can work at a higher intensity for larger 102	
To conclude, using both network of braining	would be us secul as
they could improve their ancerobic fitners and they can swim at a forter poce for langer.	heir power so tout to
tray can swim at a forter pour far langer. (Total for our	stion 10 – 0 marks)

A more detailed description of the two types of training and a greater focus on the advantage of using a combination of the methods of training was required to move this response into level 3.



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