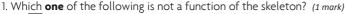
Questions





b. To protect the heart and lungs

c. To ensure enough oxygen reaches the working muscles

d. To produce red blood cells

2. Identify **three** different functions of the skeleton? (3 marks)

3. Posture and support are two functions of the skeleton. Describe how the skeleton performs **three** different functions. (3 marks)

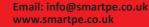












Mark Scheme



- 1. Which **one** of the following is not a function of the skeleton? (1 mark)
 - ✓ c. To ensure enough oxygen reaches the working muscles
- 2. Identify **three** different functions of the skeleton? (AO1 3 marks) Gives support (1) Gives posture (1) Gives protection (1) Allows movement/muscle attachment (1) Storage of minerals (1)
- 3. Posture and support are two functions of the skeleton. Describe how the skeleton performs **three** different functions. (AO1 – 3 marks)

Protection - the skeleton protects internal organs from damage e.g. the cranium protects the brain (1).

Movement – the skeleton allows muscle attachment (1).

Blood cell production - bone marrow in some larger bones produces blood cells (red) (1).

Storage of minerals - bones release essential minerals, e.g. calcium and phosphorus, when needed (1).









Muscles and their Role #1

Muscles help create movement.



Name	D	
Role	A the arm at	
Example in sport	Front crawl swimming arm action	



Example in sport	Front crawt swimming arm action
Name	I
Role	E the head at the n
Example in sport	Tilting the h b to head a football



Name	Р
Role	A the arm at the S
Evample in sport	Forehand ground stroke in tennis



Top Tip

In the exam you may be asked to give a specific sporting action where a muscle or group of muscles are responsible for the movement.









O smart_pe



Muscles and their Role #1

Muscles help create movement.



Name	Deltoid
Role	Abducts the arm at the shoulder
Example in sport	Front crawl swimming arm action



Example in sport	
Name	Trapezius
Role	Extends the head at the neck
Example in sport	Tilting the _ h e a d _ _ b a c k _ to head a football



Name	<u> Pectorals</u>
Role	Adducts the arm at the shoulder
	tile <u>Silouluel</u>

Example in sport Forehand ground stroke in tennis



Top Tip

In the exam you may be asked to give a specific sporting action where a muscle or group of muscles are responsible for the movement.











Planes of Movement #1



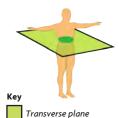
F	_ plane – an imaginary line
that v	divides the
body into f	and b
portions. A	and
a	occur in this
plane e.g. a <u>C</u>	or
S jump.	







In the exam you may be asked to identify the plane that is being used in a particular movement.



<u>T</u>	plane – an imagin	ary
line that h		- Consultant
divides the body into t	and	
b p	ortions.	
R	_ occurs in this plane e.g.	Í.
a f t	in trampolining or	16
S	in discus.	







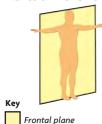








Planes of Movement #1



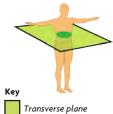
Frontal plane – an imaginary line that _vertically divides the body into _front and _back portions. _Abduction _ and _adduction _ occur in this plane e.g. a _ cartwheel _ or _star jump.





Top Tip

In the exam you may be asked to identify the plane that is being used in a particular movement.



Transverse plane – an imaginary line that _horizontally divides the body into _top and _bottom _portions. _Rotation _ occurs in this plane e.g. a _full _twist _ in trampolining or













spinning in discus.

Types of Training #3



Type of Training	training #1
Definition	Training that incorporates periods of <u>e</u> and <u>r</u>
Example #1	c training. A series of a performed at S that focus on d performed at S that focus on d between stations. e.g. 20 repetitions of the following exercises (S) with a 20
	second rest in between: Press-ups Squats Crunches Star jumps Leg raises x 20 x 20 x 20 x 20 x 20











Types of Training #3



Type of Training	Interval_training #1
Definition	Training that incorporates periods of exercise and rest .
Example #1	Circuit training. A series of alternate exercises performed at stations that focus on different muscle groups. This method often involves a rest between stations. e.g. 20 repetitions of the following exercises (stations) with a 20 second rest in between: ✓ Press-ups ✓ Squats ✓ Crunches ✓ Star jumps ✓ Leg raises x 20 x 20 x 20 x 20 x 20











Questions



- Compare fartlek training and continuous training. (2 marks)

 Which method of training would be most suited to an endurance athlete? (1 mark)
- 3. State **two** types of interval training. (2 marks)
- 4. Describe **two** features of weight training as a method of training. (2 marks)









smart_pe



SmartPE1



Mark Scheme

1. Compare fartlek training and continuous training. (AO3 – 2 marks)

Fartlek training involves different speeds whereas continuous training is at a more constant speed (1).

Fartlek training involves different terrains whereas continuous training often involves running with no variation (1).

Fartlek training includes short and long-distance work whereas continuous training is mainly long distance at the same intensity (1).

2. Which method of training would be most suited to an endurance athlete? (AO2 – 1 mark)

Continuous training (1)

3. State **two** types of interval training. (AO1 – 2 marks)

Circuit training (1), weight training (1), plyometric training (1), HIIT training (1)

4. Describe **two** features of weight training as a method of training. (AO1 – 2 marks)

A method of training that uses free weights/resistance machines (1). It targets certain muscle groups (1). Involves sets and repetitions (1).

Involves exercise like chest press/biceps curl/shoulder press (1).

(accept any other suitable answer)







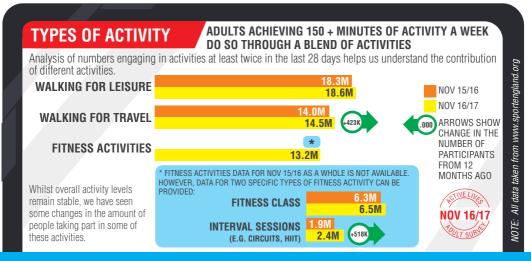






Physical Activity and Sport - Current Levels from Sport England's Active Lives Survey 2016/17 #1

The five most popular methods that adults use to achieve 150+ minutes of physical activity a week are:









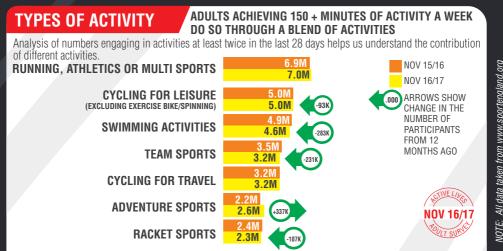




SmartPE1



Physical Activity and Sport - Current Levels from Sport England's Active Lives Survey 2016/17 #2







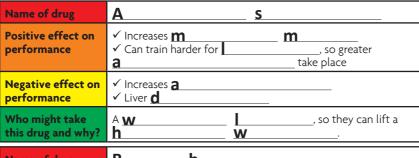


smart pe



SmartPE1

Drugs in Sport #2



Name of drug	<u>B</u> <u>b</u>
Positive effect on performance	✓ Calms n ✓ Slows h r
Negative effect on performance	✓ D ✓ Low b pressure
Who might take this drug and why?	An a, so they can keep a













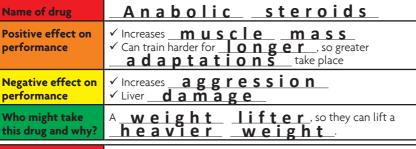
smart_pe



SmartPE1 Email: info



Drugs in Sport #2



Name of drug	<u>Beta</u> <u>blockers</u>
Positive effect on performance	✓ Calms <u>nerves</u> ✓ Slows <u>heart</u> <u>rate</u>
Negative effect on performance	✓ Depression ✓ Low blood pressure
Who might take this drug and why?	An <u>archer</u> , so they can keep a <u>steady</u> hand and be <u>accurate</u> .













smart_pe



SmartPE1



Questions

For questions 1-3, indicate by placing a figure \boldsymbol{X} on the continua below.



i. Where on the difficulty classification of skills continuant would you place mai	acrion running: (rmark)
Simple	Complex
Difficulty Continuum	
,	

2. Where on the difficulty classification of skills continuum would you place a rugby tackle? (1 mark)

Simple Complex Difficulty Continuum

3. Where on the environmental classification of skills continuum would you place a rugby tackle? (1 mark)

Open Closed

Environmental Continuum

- 4. Using a practical example, describe **one** characteristic of a closed motor skill. (1 mark)
- 5. Using a practical example, describe **one** characteristic of a simple motor skill. (1 mark)







art_pe



martPE1



Mark Scheme

For questions 1 - 3, indicate by placing a figure **X** on the continua below.



- 2. Where on the difficulty classification of skills continuum would you place a rugby tackle? (AO2 1 mark) Accept the X anywhere on the right-hand side of the continuum (the 'complex half' of the continuum) (1).
- 3. Where on the environmental classification of skills continuum would you place a rugby tackle? (AO2 1 mark) Accept the X anywhere on the left-hand side of the continuum (the 'open half' of the continuum) (1).
- 4. Using a practical example, describe **one** characteristic of a closed motor skill. (AO2 1 mark) **Performed in a predictable environment e.g. throwing a shot put** (1). (accept any other suitable answer)
- 5. Using a practical example, describe **one** characteristic of a simple motor skill. (AO2 1 mark)

 Basic movement action e.g. running (1), not difficult to perform e.g. running (1), few decisions to make e.g. taking a long goal kick (1). (accept any other suitable answer)











SMART Principles of Goal Setting #1

Specific Measurable Achievable Recorded Timed



Principle	Description	Example
S pecific	A t to achieve.	To improve my serve in tennis.
M easurable	Something q you can use.	A shot putter measuring the distances thrown to monitor progress.
Achievable	Something that can be d by the p .	A diver must have the physical and mental ability to perform a front somersault.
Recorded	A training p record.	A long-distance runner writing down their times to check progress.
Timed	To be a in a certain p of time.	Completing the target within two months.

Top Tip

In your exam and coursework you will need to be able to apply the SMART principles to improve and/ or optimise performance.











SMART Principles of Goal Setting #1

Specific Measurable Achievable Recorded Timed



Principle	Description	Example
S pecific	A <u>target</u> to achieve.	To improve my serve in tennis.
M easurable	Something quantitative you can use.	A shot putter measuring the distances thrown to monitor progress.
Achievable	Something that can be done by the performer	A diver must have the physical and mental ability to perform a front somersault.
Recorded	A training programme record.	A long-distance runner writing down their times to check progress.
Timed	To be achieved in a certain period of time.	Completing the target within two months.

Top Tip

In your exam and coursework you will need to be able to apply the SMART principles to improve and/ or optimise performance.











Ouestions

1. Which **one** of the following is an example of selective attention for effectively performing in diving? (1 mark)



a. Concentrating on the take off board instead of listening to the crowd

b. Thinking about all the things that could go wrong with the dive c. Warming up before climbing the steps to the diving board

d. Setting a realistic target on how well the dive will be performed

2. Explain how mental rehearsal can help a sports performer mentally prepare for their effective performance. (3 marks)

3. Describe **two** effects of positive thinking on the performance of physical activities, giving a practical example for each part. (4 marks)













Mark Scheme

1. Which **one** of the following is an example of selective attention for effectively performing in diving? (1 mark)



a. Concentrating on the take off board instead of listening to the crowd

2. Explain how mental rehearsal can help a sports performer mentally prepare for their effective performance. (AO3 - 3 marks)

Before/during performance mental rehearsal can be used to improve concentration by blocking out distractions (1).

Can increase confidence by picturing a perfect performance in your mind (1). Can reduce stress/anxiety so they can calm down and focus on their technique/performance (1).

(accept any other suitable answer)

3. Describe **two** effects of positive thinking on the performance of physical activities, giving a practical example for each part. (AO2 - 4 marks)

Thinking about performing well (1), for example, thinking about successfully tackling an opponent in a rugby game to stop them scoring a try (1). Blocking out negative thoughts (1), for example, in basketball not thinking about the free throw you missed earlier in the game (1).

(accept any other suitable answer)











Benefits of Physical Activity and Consequences of a Sedentary Lifestyle #2

Physical <u>C</u>	heart disease (CHD)
Benefit of Physical Activity Decreases risk of C by blood flow which p arteries from C up with f deposits.	Consequence of a Sedentary Lifestyle Increases risk of C as a are more to C up with d which r b flow.
▶ B	pressure
Resting b is reduced due to a being more	Consequence of a Sedentary Lifestyle Resting blood pressure due to a being elastic.







mart pe



martPE1





Benefits of Physical Activity and Consequences of a Sedentary Lifestyle #2

Physical



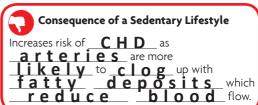
Coronary heart disease (CHD)





Decreases risk of CHD by

improving blood flow
which prevents arteries from
clogging up with fatty
deposits.





Blood pressure





Benefit of Physical Activity

Resting blood
pressure is reduced due to arteries being more



Consequence of a Sedentary Lifestyle

Resting blood pressure

<u>increases</u> due to <u>arteries</u> being <u>less</u> elastic.







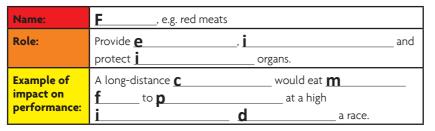
smart pe



martPE1



Balanced Diet #2







Name:	Proteins, e.g. f		
Role:	Muscle g	and <u>r</u>	and
	occasional <u>e</u>	source.	
Example of	A W	L	_ would eat more
impact on	р	to allow m	tears
performance:	in the m	to heal so t	hey can lift a
	h	weight.	









O smart_pe



Balanced Diet #2

Name:	Fats , e.g. red meats
Role:	Provide energy , insulation and protect internal organs.
Example of impact on performance:	A long-distance <u>cyclist</u> would eat <u>more</u> <u>fat</u> to <u>perform</u> at a high <u>intensity</u> <u>during</u> a race.





Name:	Proteins, e.g. fish
Role:	Muscle growth and repair and occasional energy source.
Example of impact on performance:	A weight lifter would eat more protein to allow micro tears in the muscle to heal so they can lift a heavier weight.









