

Learning Grids for GCSE AQA PE

Questions

(Paper 1)

zigzageducation.co.uk

POD 8287a

↑ Follow us on Twitter @ZigZagPE

Publish your own work... Write to a brief... Register at **publishmenow.co.uk**

Contents

Teacher Feedback Opportunity	ii
Thank You for Choosing ZigZag Education	ii
Terms and Conditions of Use	iv
Teacher's Introduction	v
3.1.1: Applied Anatomy and Physiology	1
3.1.1.1 – The structure and function of the musculoskeletal system	
Bones, structure and functions of the skeleton, and synovial joints	1
Muscles, movement and antagonistic pairs	6
3.1.1.2 – The structure and function of the cardiorespiratory system	
The respiratory system	
The cardiovascular system	
3.1.1.3 – Aerobic and anaerobic exercise	
Aerobic and anaerobic exercise	
3.1.1.4 – The short-term and long-term effects of exercise	
Short-term and long-term effects of exercise	
3.1.2: Movement Analysis	
3.1.2.1 Lever systems and movement analysis and 3.1.2.2 Planes and axes	
Lever systems	
Movement analysis	
3.1.3: Physical Training	
3.1.3.1 The relationship between health and fitness, and 3.1.3.2 Components of fitness and how fitness is measured	
Health and fitness and components of fitness	36
Fitness testing	39
3.1.3.3 Principles of training and their application to training	
Principles of training and types of training	
Advantages and disadvantages of training	
3.1.3.4 How to optimise training and prevent injury	
Altitude training and seasonal aspects	
3.1.3.5 Effective use of a warm-up and a cool-down	
Warm-ups and cool-downs	
3.1.4: Use of Data	
3.1.4.1–3 Demonstrating a knowledge of understanding, presenting, analysing and evaluating data	
Understanding data	61

Teacher's Introduction

These learning grids are a tool designed to help you deliver AQA GCSE PE (Paper 1). The concept is that your students are assigned a set of pages to read from their notes or a textbook, possibly for homework, and then asked to complete the relevant learning grids.

The grids are designed to ask questions in sufficient detail that your students are able to study the relevant sections and find the correct answers. Completed grids are provided so that your students' answers can be marked or checked. It may also be useful to hand these out to students during their revision to assist them with answers they cannot find.

These activities are particularly useful for weaker students who find this method of studying of great value, particularly if they find it difficult to absorb information in class.

Advantages of using these learning grids are:

- Resulting grids contain a summary of what students need to know that is useful for revision.
- They are an easy-to-set, yet valuable homework.
- They are a useful catch-up tool to help students who have missed a lesson.
- They can be used as a basis for cover lessons that require minimal preparation and minimal interaction from the cover teacher.
- They are an independent learning resource.

You may want to photocopy the sheets onto A3 paper, particularly for students with reading or writing difficulties.

This edition supports students using the following sources: Hodder Education textbook AQA GCSE PE (9–1) PE by Ross Howitt and Mike Murray (ISBN 9781471859526)

and

Oxford Education textbook, AQA GCSE Physical Education by Kirk Bizley (ISBN 9780198370253)

Notes to teachers using these Learning Grids with AQA GCSE PE (9-1) PE by Ross Howitt and Mike Murray

This resource follows the order of the specification, and helps students pick out the points which are most important for the study of PE at AS/A Level.

The resource is cross-referenced to the popular AQA textbook, so that students using this book can easily find the information that they need.

When the information that students require to answer a question is not included in the cross-referenced textbook, the question is labelled as a research task.

January 2018

Free Updates!

Register your email address to receive any future free updates* made to this resource or other PE resources your school has purchased, and details of any promotions for your subject.

* resulting from minor specification changes, suggestions from teachers and peer reviews, or occasional errors reported by customers

Go to zzed.uk/freeupdates



3.1.1: Applied Anatomy and Physiology

3.1.1.1 - The structure and in join of the musculoskeletal system

Some structions of the symptotic struction of the symptotic struction of the let the six functions of the let the six function, give an example ow it can be applied to sport. 2. 3. 3.			
skeleton and functions of the rise the six functions of the let is ror each function, give an example ow it can be applied to sport. 2.		29 Questions	
		Educa	Function
	Bones, structure and functions of the skeleton, and synovial joints	\mathcal{D}_{a}° let \mathcal{L}_{a} for each function, give an example	2.

\overline{Z}



Questions 4. skeleton, and synovial joints (continued) structure and functions of the Name and describe the six functions of the skeleton. For each function, give an example of how it can be applied to sport. (Continued) 6. Bones, Joint Head/Neck **Elbow** Fill in the gaps in the table, ident by a coller the joint, or the bones * magap a joint. Knee Hip Shoulder



Questions Which bone lies in work to the knee joint? Label the Gal or a synovial joint and **Feature** some of them prevent injury. 1. skeleton, and synovial joints. (continued) 2. Bones, structure and functions of the 1. 7. 6. 4. 5. 6. Describe the role of ligamatic joints. e Some provide protection for al agans? Give a sporting example of cific bones that provide protection.

S



Questions 7. What types of bong : A var so movements of the skele' sporting example of ာင*်း ေလ* ့် that allow gross movement. What types of bone allow fine movements skeleton, and synovial joints (continued) of the skeleton? Give a sporting example of Bones, structure and functions of the specific bones that allow fine movement. Describe how the skeleton works with muscles to produce movement Type of joint Moveme: 10. Name the types of joint found in the body and name the movements that can be performed at each. Then, define each type of movement.



Questions skeleton, and synovial joints (continued) 11. What type of joint and the shoulder Bones, structure and functions of the and hip? 12. What type of joint is found at the knee and elbow? Type of Joints 13. Name and define the movemon's tar be performed at the





Questigns Muscles, movement and antagonistic pairs Label the muscles of the body to the right. t role to tendons play in the musculoskeletal system? Joint Movement **Flexion** Provide a sporting example for each **Extension** the types of movement at t' joints. **Flexion** Knee **Extension**



Questions

Muscles, movement and antagonistic pairs (continued)

d	119	3	
	10	ġ,	À
V	desc	OK.K.	I
- 2	Berry Const	A	

4. Provide a sporting example for each of the types of movement at the named joints. (Continued)

À	Joint	Movement	
	11:	Flexion	
	Hip	Extension	
		Flexion	
		Extension	
	Shoulder	Abduction	
88.2		Adduction	
	<i>, 11 "</i>	Rotation	
	E)	cample	Mo



5. Identify the movements shown at the ankle and provide the agonist that causes this movement.







ON COPY

COPYRIGHT



Questions Name and describe ne A) upes of isotonic () * Ja Muscles, movement and antagonistic pairs (continued) escribe an isometric contraction. Muscles work in pairs to cause movement at a joint. What are the roles of the agonist and antagonist muscles in movement at a joint? Give an example of an in it pair of muscles "5 -າງ ລາເ of your Movement **Abduction** 10. Identify the agonistic muscle(s) that Adduction cause movement at the shoulder. **Flexion** Extension Movement r uscle(s) that 11. Identify the acad **Flexion** ો દાં ો nt ac the elbow. Extension



Questions Movement **Abduction** 12. Identify the second suscle(s) that Muscles, Movement and antagonistic pairs (continued) ું દેતાt at the hip. Rotation Extension Movement 13. Identify the agonistic muscle(s) that **Flexion** cause movement at the knee. Extension Scenario A rugby prop pushing against his opponent in the scrum. The scrum is stable and not moving. 14. each of the following scenarios, justify whether the muscles are A gym member slowly lowering working eccentrically, concentrically or themselves from a pull-up isometrically. A swimmer pulling back their arms, under the water during the front crawl





3.1.1: Applied Anatomy and Physiology

3.1.1.2 - The structure and in the cardiorespiratory system

	4	19. Questions	
		Education	1.
			2.
	1.	Identify the pathway of air in order	3.
	1	from the atmosphere to the blood.	4.
			5.
E			
syste			Intercostals
iratory	2.	ib Es of the intercostals, and diaphragm when a person educates at rest.	Ribcage
The respiratory system			Diaphragm
=			Inter
	,	Describe the roles of the <i>intercos</i> solution. The cage and diaphrage solution is a series of the intercos solution. The cage are solution is a series of the intercos solution.	Ribcage
		73 Education	Diaphragm

S



Questions

4. Le exercise our breathing rate in cases and our lungs expand more.

Explain how additional skeletal muscles are recruited to allow this to happen.

5. Explain the second explain T_{09}^9 for an exhalation of air.

6. Define each of the following lung volumes.

	volume	
	Tid' ume	
1	spiratory	
	reserve volume	
	Expiratory	
	reserve volume	
	Residual volume	

COPYRIGHT PROTECTED



The respiratory system (continued)

Questions Αı Volume (L) The respiratory system (continued) Identify each of the lung volumes on the spirometer trace. Tin Inspiratory reserve volume **Expiratory** When exercise begins, explain what reserve happens to the following volumes. volume Tidal volr__2 9. Give a definition of diffusion



Questions 10. Explain how gaseours cria 1/2 cakes place at the 🦿 🔌 🗒 system (continued) 11. Which physiological factors aid gaseous exchange? The respiratory 12. What role do her grobin play in scanage?



S



Veins: What are the roles of veins, arteries and cardiovascular system Arteries: capillaries? Capillaries: Structure/Characteristic The Identify the structures and characteristics of Veins veins and arteries, and describe how these characteristics aid the transportation of blood.

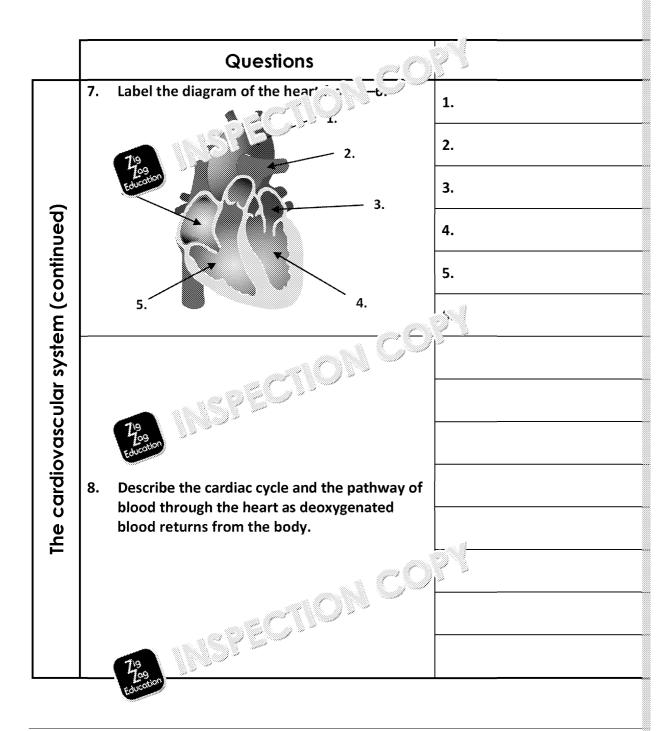


Questions Structure/Characteristic ್ತು actures and characteristics of cardiovascular system (continued) Arteries nd arteries and describe how the characteristics aid in the transportation of blood. (Continued) Describe the structure or characteriatic of capillaries and how the strutare sugareous exchange. the name of the vein that receives oxygenated blood from the lungs and The transports it to the left atrium of the heart? 6. Name two other major veins that supply the heart, and state where each carries blood to and from.

TION COPY





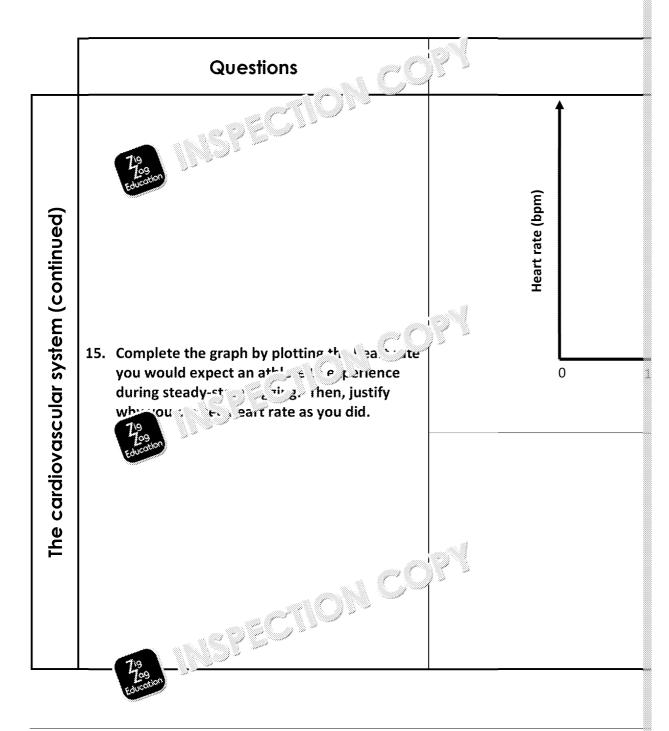




Questions Describe what is mean wy 1. cardiovascular system (continued) 10. Limbe the process of systole. Heart rate 11. Define the terms 'heart rate', 'stroke volume' €* ∋ke volume and 'cardiac' output. Cardiac output 12. Write an equific at the cardiac output. anticipatory rise? The 14. Explain how the body redistributes blood to aid exercise.











3.1.1: Applied Anatomy and Physiology

3.1.1.3 - Aerobic and annerally kercise

		Cestions
	1.	Education 'aerobic exercise'.
se l	2.	Write an equation to show aerobic exercise.
Kerci	3.	Define 'anaerobic exercise'.
ic e	4.	Write an equation to show anaerobic exercise.
Aerobic and anaerobic exercise	5.	Give a sporting example of ar competes aerobically example of architecture example example of architecture example of architecture example of architecture example ex
Aerobic	6.	Give a sporting example of an athlete who competes anaerobically.
		Justify your answer.



S



Questions f a sport that requires the touse both the aerobic and anaerobic Justify your choice. (continued) 8. Define 'EPOC'. exercise Why does EPOC anaerobic 1. and 10. What are the three main parts of a cool-2. down? **Aerobic** te perform a cool-11. Give reasons which Transcise.



Questions Hydration: Carbohydrates: 12. pe wan athlete's diet can be lated to aid recovery, and suggest (continued) how each component of the diet aids recovery. **Proteins:** exercise 13. What does DOMS stand for? 14. What causes DOMS? and anaerobic dc 🖈 الرحا 🕚 dc. **Aerobic** 16. Using a specific example, explain one recovery method that helps to prevent DOF following high-intensity exercise.





3.1.1: Applied Anatomy and Physiology

3.1.1.4 - The short-term c \dot{c} \dot{c} \dot{c} \dot{c} \dot{c} rem effects of exercise

	vestions	Cardiovascular respons
Short-term and long-term effects of exercise	1. Describe the immediate effects of exercise on the cardiovascular and respiratory systems. 7. The systems of exercise of exercise on the cardiovascular and respiratory systems.	
rt-term and la	2. Explain why the following * y / h 3 liate	In reased rody .emperature
Sho	effects happen as tary to exercise.	Increased sweating

\overline{Z}



Questions

of exercise (continued)

and long-term effects

Short-term

3. just completed a high-intensity credit training session.

Describe the short-term effects Jack may experience in the 36 hours after the exercise.



4. How does long-term exercise help to improve body shape?

730 Description of the second of the second

COPYRIGHT PROTECTED Zig Zag

Education

Questions exercise ₫ Short-term and long-term effects (continued) Explain the long-term effects of exerise on the fitness of an individual. What is the term used to explain a resting heart rate of less than 60 bpm?

TION COPY





3.1.2: Movement Analysis

3.1.2.1 Lever systems and remaining analysis and 3.1.2.2 Planes and a

		· Lestions	
	1.	Define the 'fulcrum' in a lever system.	
	2.	What is an 'effort' in a lever system?	
	3.	Define a 'load', or 'resistance', in a lever system.	
Lever systems	4.	Give an example of er 11/3 a rever system.	Fulcrum Effort Load
Per le	5.	Draw and label the fulcrum, effort and load in a second-class lever system.	
		Tools In the second sec	



S



Questions Draw a first-class lever to make label Lever systems (continued) the resistance. The servert arm. 7. Draw a third-class lever system.



Questions To the are two images of sporting Lever systems (continued) movement. Identify the lever system being used in each image, and label the components of the lever on the image. nation to represent mechanical advantage. 10. Why does a first-class lever system have a mechanical advantage? What effect does this have on movement? 11. Why does a second-class lever system have a mechanical advantage? What effect in s this have on movement?



Questions

Lever systems (continued)

12. Why are third-classifier systems considered to be mechanical



13. Give sporting examples of a first-, second- and third-class lever system.

(Use different examples from those given in Question 8.)

		ĺ																					

Second Class:

Th' \ ass:





TION COPY



Quer": ns Sagittal: the 'sagittal', 'frontal' and Frontal: 'transverse' planes of movement. of movement Transverse: Label the three planes of motion : th axes diagram. Planes and 3. Name and define the three axes of rotation a body can move in.



Questions



4. Label the axes of rotation on the diagram.



axes

and

Planes

5. For the following sporting movements, state which plane and axis each movement is occurring in.





A long jumper performing the





Questions A discus thrower spinni movement (continued) A footballer performing sidesteps For the following sporting of leading, state which plane . axis year A cartwheel ्रिका ्रें हु in. (continued) movemer+ ₫ axes and Planes A terais player running backwar lob shot

S

COPYRIGHT



Questin is Shoulder **Elbow** What movements are possible at the Hip Movement analysis following joints? Knee Ankle Movements Jo\ flexion **Shoulder flexion** For each of the following mode. identify the agonist ascult a sausing **Plantarflexion** the movema **Elbow extension Shoulder adduction**

7700 Marie Carlos Carlo

S

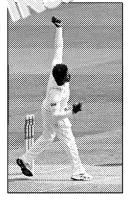


Questions

Fill in the answers to the right in perform movement ar in the shoulder of the



Movement analysis (continued)



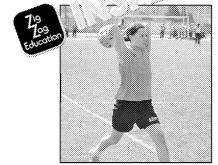
Movements at shoulder, and agonist muscle causing movements:

Mov

Plane of movement:

🖈 📝 r tation:

4. Perform a movement ma is a footballer's email at throw-in.



N	lo	V	en	ne	n	ts	a:	tε	Ш) C	W	', ;	ar	IC
	_			ist				-1 <i>,</i>						
	4	51	,,,	131	H		ı»	- IK			u:	111	15	
				m	O١	/e	m	ıe	11	5				

Plane of movement:

a of movement:

S





Questions An I to a newt type: Agonist muscle: Contraction type of agonist muscle: Plane of movement: Movement analysis (continued) Axis of movement: Movement type: Fill in the answers to the right, to Agonist muscle: perform movement analysis of a standing vertical jump at the Contraction ty agonist muscle: moment of take-off. P¹3. or movement: Axis of movement: Movement type: Agonist muscle: Contraction type of agonist muscle: Plane of movement: A: is it inc∂ement:



Questions



Movement analysis (continued)

Perform a movement analysis on a runner in the recovery stage of a stride.



_′		
	Movement type:	
	Agonist muscle:	
	Contraction type of agonist muscle:	
	Plane of movement:	
	Axis of movement:	
	vement type:	
	Agonist muscle:	
000	Contraction type of agonist muscle:	
	Plane of movement:	
	Axis of movement:	
	Movement type:	
	Agonist muscle:	
	Co' type of agonist muscle:	
	Plane of movement:	
	Axis of movement:	

COPYRIGHT PROTECTED ∠ag Education





3.1.3: Physical Training

3.1.3.1 The relationship between earn and fitness, and 3.1.3.2 Compo

		719 Sions		
	1.	Education 2 'health'.		
	2.	Define 'fitness'.		
of fitness	3.	Describe the positive effects improved fitness can have on health.	<i>18</i> 3	
Health and fitness and components of fitness	4.	Describe the possible relationshing between ill health and fixes.		
CO			Fitness component	
nd		209 Education		The ability of mus
ess c				The range of move
fiitne	5.	Fill in the table, naming the	Reaction time	
Ith and		component of fitness, or providing a definition of the component of fitness.		Larg
Hea			Strength	Perf
	(79 Februaries		The × sp



Questions Ans **Agility** and components of fitness (continued) Fill in the table, naming the component of fitness a same and a same a same and a same a **Balance** definition the the real ant of fitness. The ability to use more that Cardiovascular endurance **Sporting Fitness component** example Muscular end arache **Flexibility** For each of the come of the and fitness, as variat requires that fits ponent and justify Reaction time your answer. Static strength Health Dynam's star Al



Questions of fitness (continued) **Maximal strength** Power / explosive strength Agility For each of the components of fitness, name a sport that requires and components Speed that fitness component and justify your answer. Continued. Balance Coordination Health and fitness, Cardiovascular endurance Would a 50 m sprint swimmer need high levels of muscular endurance? Justify your answer. Explain whether a long jumper would benefit from having a reco good reaction time





Questic : 7 1. Describe the benefits of, or reasons for, testing an athlete's fitness Fitness testing ain 🐪 🔌 🥦 ble limitations es lesting. Test έ υ[†] λuent Name and describe the to measure flexible Protocol

S



Questions Name the test that is use measure speed Fitness component the component of fitness an be measured using a hand grip dynamometer. Protocol Describe the protocol of this test. Fitness testing (continued) Identify the test being shown by Test the image below. Name what component of fitness the test measures and describe the Fitnes: > 'pchent protocols of this test. **Protocol** Describe the protocol of the stork balance test



Questions sketch to illustrate how the Illinois Agility test is completed. Below it, describe the protocol. Fitness testing (continued) An athlete could use the one-rep max (1RM) test to test which component of fitness 16 👌 🐪 🤧 🖒 lished, how is twassess strength? Equipment 11. The multistage fitness test is commonly used as a cheap method of testing cardiovascular endurance. rotocol Identify any equipment required to complete the miltistag fitness test, so he live the 🔻 🌙 tést.



	Questions	Ansv
(continued)	12. Name and describe the to test a rendural and the second secon	Protocol
Fitness testing (continued)	13. Provided below is the protocol of a fitness test. Name the fitness test being described and state which component of fitness is assessed using the test.	Test:
	An athlete rouse gainst a wall for the ball is thrown and caught is counted and used as a score.	Fitness component:
	Grids for GCSE AQA	Page 42 of 64



Questions

14. how a vertical jump test is carried out by an athlete to assess their explosive strength.

15 .	
	est whether it is appropriate
	/ not appropriate for the athlete
	it has been matched to. Justify
	your answer.

rn er est	Sport athlete
One-rep max test	Triathlete
Sit-and-reach test	Dancer
line's agility test	100 m sprinter



Fitness testing (continued)



Questions 16. When taking measurements in Distance: fitness tests you must 🗀 😢 😗 you are recording a maker Time: h of the following quantities, state the unit it should be measured Mass: Fitness testing (continued) 17. What is qualitative data? 18. What is quantitative data? 19. Explain why quantitation (a.s.) useful in fitne نام العام 20. Explain why normative data is useful in fitness testing.





3.1.3: Physical Training

3.1.3.3 Principles of training their application to training

		79 Lestions	
aining	1.	Name and describe the principles of SPORT to maximise improvements in sporting performance from training.	S P O R T
ng and types of tr	2.	Give a sporting example we can principle of SPCP and the sporting example we can principle of the sporting example of	P O R
Principles of training and types of training	3.	Explain how overload can occur using the FITT principle.	F T

\overline{Z}



Questions



Principles of training and types of training (continued)

4. Describe each of the states training and states training improves.

Training type	[
1.	
2.	
4.	
5.	
6	
7.	

S

COPYRIGHT PROTECTED

Zig
Zag
Education

Questions What considerations shall a place when completion of the cus trains? of training (continued) Education designing a circuit session, the coach should ensure there is enough space to hold all of the circuit stations. What else should the coach check in order to design a successful circuit training session? Application to a circuit training of training and types 5 PO Using specific examples, apply the principles of SPORT and FITT to a circuit training session. **Principles** T



Questions An Application to a circuit training session of training (continued) Using space examples, apply the 7. principles of SPORT and FITT to a circuit training session. T and types Principles of training 269 pach who is planning a fartlek training session. (Continued) How should interval training be adapted for a beginner athlete? 10. What does HIIT stand for? 11. How should an athlete perform to stretching in order to



Questions An 12. Alice is looking to improve her strength by completing weight What safety advice would you Alice when completing in training? of training (continued) training? 13. Plyome Log inica is often avoided by coacled athletes. Why is this? Training thre Training type **Continuous** and types **Fartlek** ad ma 14. For each of the types of training, give **Plyometric** of training the correct training threshold and athletes should train , , , specific Circuit i 🗸 ior each the rest training Static stretching **Principles** Weight training



Questic: 5 **Advantages** of training Give the advantages and disadvantages of continuous training. disadvantages vaining type: Advantages Identify the transfer shown in the the advantages and Advantages and ntages of this type of training?



Questions 3. Fartlek training may not be suit ! for all athletes depending it. demands of this is a ... of training (continued) e Lavantages of fartlek training athlete. Advantages disadvantages Assess the use of plyometric translation **Advantages** and weight training : mip 5 }c fitness. and Advantages Advantages Describe the advantages disadvantages of streeting to a rughy playa it in va m-up.



Questions Advantages of training (continued) The table, listing the advantages 6. and disadvantages of interval training. and disadvantages Co 1 nuous **Fartlek** Interval 7. Feach training type, give an example of an athlete who would **Plyometric** benefit from the type of training. Advantages Circuit ith: retuning Weight training





3.1.3: Physical Training

3.1.3.4 How to optimise training prevent injury

			•
		ions	
	1.	s a training threshold?	
	2.	Training thresholds can be set at	
_		percentages of maximum heart rate.	
injur		How is maximum heart rate calculated?	
ing	3.	What percentage of maximum heart	
[<u> </u>	rate does aerobic training occur in?	_
¥	4.	What percentage of maximum hear	
Optimising training and preventing injury	5.	Dan is 27 v	
Optimisi	6.	Calculate the heart rate range that 22-year-old female should in ways, ag in to improve here big thess.	

$\frac{\mathbb{Z}}{\mathbb{Z}}$



Questions Circuit training can be altered: the needs of the athle: and preventing injury (continued) relation a circuit to the fitness aim of a circuit The intensity/weight used in weight training is determined using onerepetition maximum (1RM). What is 1RM? What are 'reps' and 'sets'? Sets: Optimising training how 1RM can be used to anow an athlete to improve their strength and power. 11. Explain how 1RM can be used to allow an athlete to improve their muscular endurance.





Questions 1. preventing injury (continued) 2. 3. 4. 12. Describe nine injury prevention methods that athletes and the second 5. should adopt in [33] and 6. Optimising training 7. 9.



Qua in the second secon s a \undertraining? seasonal aspects 2. Explain the physiological changes that occur to an athlete training at and how these change and heir performance. and performance. Altitude training 3. Give two examples of athletes

S



Questions 4. Give two examples of attacks with a second of the secon would not benefit \ ='i.ude (continued) **Advantages** Assess the use of altitude training by marathon runners. and seasonal aspects 1. Name and describe each of the three seasons of training which athletes 2. Altitude training participate in within a year. ጉ- \ ree seasons of c ുഹര്t always be applied to a



Questions Jeason of training aspects (continued) For the following scenario, give a brief training plan / list of activities that the athlete would complete throughout seasonal the year: A long jumper who is part of the Olympic team. The Olympics is and next major event they and E competing in Altitude training

CHON COPY







3.1.3: Physical Training

3.1.3.5 Effective use of a way, up and a cool-down

		<u>"'</u>
	1. Name four components that s be part of a warm-up.	
Warm-ups and cool-downs	2. Describe the physiological benefits of way to an analysis and the physiological benefits of way to be a superior to an analysis and the physiological benefits of way to be a superior to analysis and the physiological benefits of way to be a superior benefits of way to be a superior benefit to	3 4
Warm-up	3. Plan a warm-up for a footbal' prior to a match.	

\overline{Z}



Questions cool-downs (continued) Describe the important and in rus that should be in A dia a cool-What benefits does a good cooldown give an athlete? and Warm-ups 6. Plan an appropriate cool-dev hockey player.



Z





3.1.4: Use of Data

3.1.4.1-3 Demonstrating c in figure of understanding, presenting, a

		79 Questions
	1.	Define 'qualitative data'.
	2.	Define 'quantitative data'.
data	3.	Give two examples of how to collect qualitative data.
Understanding data	4.	Give three ey A A A A A A A A A A A A A A A A A
Unde	5a.	question taken from a questionnaire. State whether the answers would be qualitative or quantitative. Give a reason for your answer.
		Rate your experience of today's lesson, learning how to play lacrosse, with 1 k lin'. 'not enjoyable at all' and 5 'n m, y enjoyable'.



\overline{Z}

COPYRIGHT



Understanding data (continued)

Sb. Below is another question tal same questionnaire same questionnaire same questionnaire sative or answers were any feedback you have for today's lacrosse coach in the space provided below. 5c. What do your answers from 5a and 5b tell you about the use of questionnaires in data collection?



raph, what data is plotted along the

S



Questions 14 12 10 data (continued) Speed (m/s) To the right is a graph plotting speed of a 100 m sprinter in a race. 2 a) Explain what is happening between 1 0 second and 8 seconds. Understanding 0 b) Calculate the distrace a petween 8 and 11 12 3 **Explanation:** չ ulation։



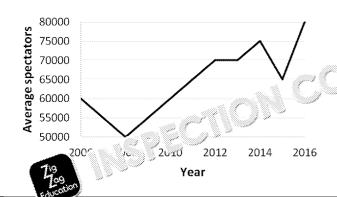
Questions

9. Draw a bar it is distance thrown by a this way using the following data:

Attempt	Distance (m)
1	55
2	65
3	65
4	65
5	60
6	70

10. Below is a graph making the average much for a accrators in a football to the last 10 years.

r the questions to the right using the graph.



- a. In what year did the number spectators hit its lowest?
- b. Between what years did the average number of spectator remain the same?

Describe the trend of spectal between the years 2013 and

COPYRIGHT PROTECTED

Zig Zag Education

data (continued)

Understanding