



PE

GCSE (9–1) | Edexcel | 1PE0



Questions

Learning Grids for GCSE Edexcel PE: Paper 1

Question Grids

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Teacher's Introduction

These learning grids are a tool designed to help you deliver Edexcel 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:

**Pearson Education textbook Edexcel GCSE (9–1) Physical Education Student Book
2nd Edition by Tony Scott (ISBN 9781292129884)**

and

**Hodder Education textbook Edexcel GCSE PE (9–1) Third Edition
by Sue Hartigan (ISBN 9781471866968)**

and

**Oxford University Press textbook Edexcel GCSE Physical Education
by Maarit Edy and Matthew Hunter (ISBN 9780198370215)**

ZigZag Education is not affiliated with
Hodder Education or AQA.

Note to teachers using these Learning Grids with the Edexcel-endorsed textbooks: 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 GCSE Level.

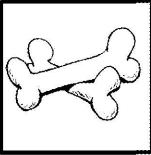
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Topic 1: Applied Anatomy and Physiology

1.1 The structure and functions of the musculoskeletal system

Questions		Function	
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Bones, structure and functions of the skeleton and synovial joints</p> <p>1. Name and describe the five functions of the skeleton. Then, for each function, give an example of how it applies to performance in sport.</p>	1.		
	2.		
	3.		

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Questions	
Bones, structure and functions of the skeleton and synovial joints	4.
	5.

1. Name and describe the functions of the skeleton. Then, for each function, give an example of how it applies to performance in sport. (Continued)

Bones, structure and functions of the skeleton and synoial joints

Questions

2. List the four classifications of bone and then state how each type of bone allows a sprinter to run a 100 m race.

Classification

3. Name and classify the bones identified to the right.

Classification **Name**

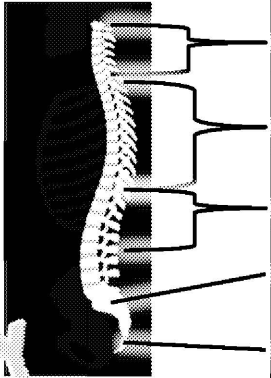
Classification	Name

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Questions				
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Bones, structure and functions of the skeleton and synovial joints</p>	<p>4. Give the names of the bones that make up the hands and the main bones that make up the feet.</p>	Hands		
		Feet		
	<p>5. Identify the five areas of the vertebral column.</p>			
		Joint name	Joint	
		Atlas and axis		
	<p>6. Name the four types of joint, then, for each joint, describe using a sporting example how each joint type allows possible movement.</p>	Elbow		
		Hip		
		Wrist		

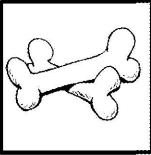
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Bones, structure and functions of the skeleton and synoial joints	Questions	
	<p>7. Define each of the movements provided and then give a sporting example for how each movement can be performed.</p>	Movement
		Flexion
		Extension
		Abduction
		Adduction
		Rotation
		Circumduction
		Plantar flexion
	Dorsiflexion	
<p>8. What is the role of a ligament and tendon, and how does this aid physical activity and sport?</p>	Ligament	
	Tendon	

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Topic 1: Applied Anatomy and Physiology

1.1 The structure and function of the musculoskeletal system


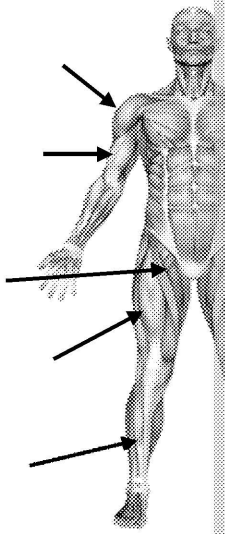



Muscles, movement and antagonistic pairs	Questions		
	<p>1. What are the three classifications of muscle and how does each aid a hockey player during a match?</p>	Muscle	

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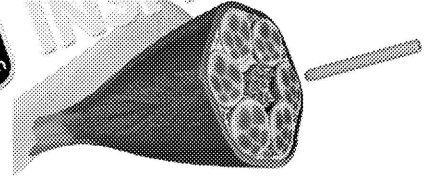

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		Questions
Muscles, movement and antagonistic pairs	 <p>2. Label the voluntary muscles of the body to the right.</p>	
	 <p>3. Antagonistic pairs of muscles create opposing movements at joints. Define 'agonist' and 'antagonist'.</p>	
	 <p>4. Identify the agonistic muscle(s) that cause(s) movement at the hip.</p>	<p style="text-align: center;">Movement</p>
	<p>5. Identify the agonistic muscle(s) that cause(s) movement at the knee.</p>	<p style="text-align: center;">Movement</p>
	 <p>6. Identify the agonistic muscle(s) that cause(s) movement at the elbow.</p>	<p style="text-align: center;">Movement</p>

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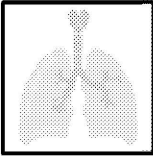


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		Questions	
		Movement	
Muscles, movement and antagonistic pairs	<p>7. Identify the agonist muscle(s) that cause(s) movement of the thumb.</p> 		
	<p>8. Identify the three types of muscle fibre and each of their characteristics. Then, for muscle fibre type, describe how its characteristics make it suitable for certain sports or physical activities.</p>  	Muscle fibre type	Characteristics
	<p>9. Describe how the skeleton works with muscles to produce movement.</p> 		





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Topic 1: Applied Anatomy and Physiology

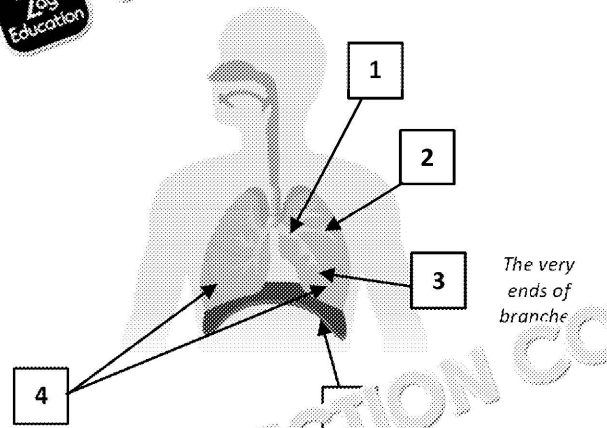
1.2 The structure and function of the cardiorespiratory system

The respiratory system	Questions			
	 <p>1. Identify the three gases found in inhaled air and exhaled air, and then state the composition of each gas in inhaled air and exhaled air.</p>	Gas		
	 <p>2. Explain why the difference in the composition of air identified in Q1 has occurred.</p>			
 <p>4. Define 'vital capacity' and 'tidal volume'.</p>	Vital capacity			
	Tidal volume			
 <p>5. Why does tidal volume change during physical activity, and what factors cause this change to occur?</p>				

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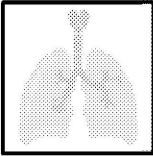
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Questions			
The respiratory system	<p>6. Identify the main components of the respiratory system in the diagram below then state their role in taking oxygen and carbon dioxide in and out of the body.</p> 	Name	Role in
		1	
		2	
		3	
		4	
		5	
	<p>7. Explain how the structure of the alveoli allows gaseous exchange to take place.</p>		
	<p>8. How does gaseous exchange allow the body to meet the demands of exercise?</p>		

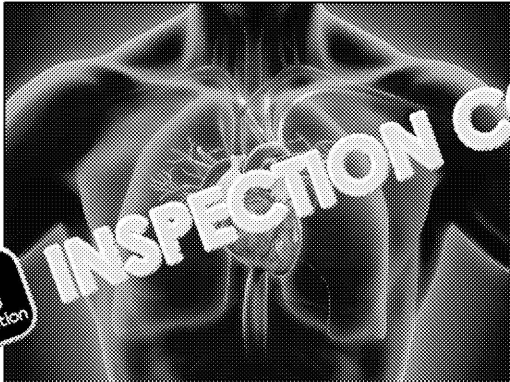
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Topic 1: Applied Anatomy and Physiology

1.2 The structure and function of the cardiorespiratory system

		Questions	
The cardiovascular system	<p>1. What are the three functions of the cardiovascular system and how does each function benefit physical activity performance?</p> 		
	<p>2. What are the roles of the veins, arteries and capillaries?</p>	Veins	
		Arteries	
		Capillaries	

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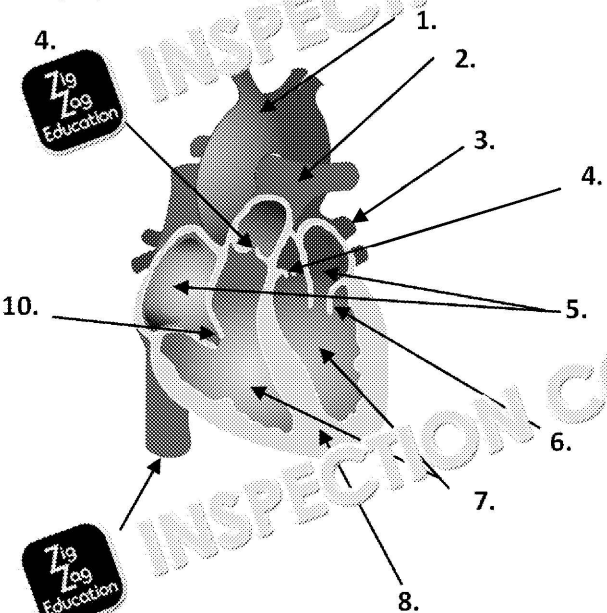


Questions	
Structure/Characteristic	Function
Veins	
Arteries	
Capillaries	

The cardiovascular system

3. Identify the structures and functions of veins, arteries and capillaries and describe how the characteristics aid the transportation of blood.

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		Questions	
The cardiovascular system	<p>4.  in how the body redistributes blood to and exercise and physical activity by vascular shunting.</p>	Vasoconstriction	
		Vasodilation	
	<p>5. Label the diagram of the heart from 1–10. Then, state the role(s) of each structure in maintaining blood circulation during physical activity.</p> 	1.	
		2.	
		3.	
		4.	
		5.	
		6.	
		7.	
		8.	
9.			
10.			

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Questions

The cardiovascular system

6. How do the cardiovascular system and the respiratory system work together during exercise?



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Topic 1: Applied Anatomy and Physiology

1.3 Aerobic and Anaerobic Exercise

Questions		
Aerobic and anaerobic exercise	1. Define 'aerobic exercise'.	
	2. Give a sporting example of an athlete who competes aerobically. Justify your answer.	
	3. What are the two by-products of aerobic exercise?	
	4. What two food groups are a good source of fuel for aerobic activity?	
	5. Define 'anaerobic exercise'.	
	6. Give a sporting example of an athlete who competes anaerobically. Justify your answer	
	7. What is the by-product of anaerobic exercise?	
	8. What food group is a good source of fuel for aerobic activity?	

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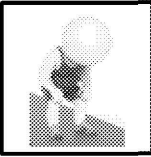


	Questions	
Aerobic and anaerobic exercise	9. What foods are good sources of carbohydrates?	
	10. What is the equation that represents aerobic exercise?	
	11. Describe the aerobic energy equation.	
	12. What is the equation that represents anaerobic exercise?	
	13. Describe the anaerobic energy equation.	
	14. Explain why fats are not used as an energy source for anaerobic exercise.	

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Topic 1: Applied Anatomy and Physiology



1.4 The short-term and long-term effects of exercise

	 <p>Questions</p>	
Short- and long-term effects of exercise	 <p>1. Describe the short-term/immediate effects of exercise on the cardiovascular system and the respiratory system that allow an athlete to continue performing.</p>	Cardiovascular respo
	 <p>2. Explain the importance of lactate accumulation and fatigue, as a short-term effect of exercise, in relation to an athlete.</p>	

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	Questions	
Short- and long-term effects of exercise	<p data-bbox="392 454 492 550"></p> <p data-bbox="257 726 896 917">4. Identify one long-term effect of aerobic exercise and anaerobic exercise on the cardiovascular and respiratory systems and explain how each effect results from exercise.</p> <p data-bbox="392 989 492 1085"></p>	<p data-bbox="1120 207 1433 295">Aerobic and Cardiovascular</p>

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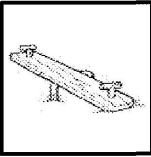


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Questions	
Short- and long-term effects of exercise	4. Define 'heart rate'.
	5. Define 'stroke volume'.
	6. Define 'cardiac output'.
	7. Using the graph provided below, explain the process of cardiovascular drift during physical activity and exercise. <p>The graph plots three variables against time (min) on the x-axis (0 to 60) and an unlabeled y-axis. Heart rate (solid line) increases from approximately 70 to 150. Stroke volume (dashed line) increases from approximately 70 to 100. Cardiac output (dotted line) increases from approximately 5000 to 15000.</p>



Topic 2: Movement Analysis

2.1 Lever systems and movement analysis and 2.2 Planes and axes




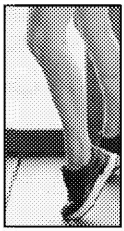
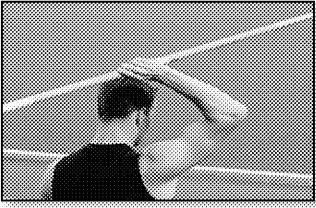
	Questions		
Lever systems	1. Define the 'fulcrum' in a lever system.		
	2. What is an 'effort' in a lever system?		
	3. Define a 'load', or 'resistance', in a lever system.		
	4. Give an example of each type of a lever systems		
5. Draw and label the fulcrum, effort and load in a second-class lever system.			

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		Questions	
Lever systems		<p>6.  a first-class lever system and label the resistance arm and effort arm.</p>	
		<p>7.  Draw a third-class lever system.</p>	
		<p>8.  To the right are two images of sporting movement. Identify the lever system being used and label the component of the lever on the images.</p>	 

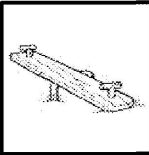
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		Questions	
Lever systems	9. Write an equation to represent mechanical advantage.		
	10. Why does a first-class lever system have a mechanical advantage? What effect does this have on movement?		
	11. Why does a second-class lever system have a mechanical advantage? What effect does this have on movement?		
	12. Why are third-class lever systems significant? How do they have a mechanical advantage?		
	13. Give sporting examples of a first-, second- and third-class lever system.	First-class:	
Second-class:			
Third-class:			

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Topic 2: Movement Analysis

2.1 Lever systems and movement analysis and 2.2 Planes and axes

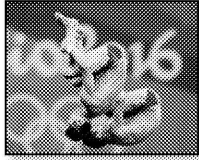

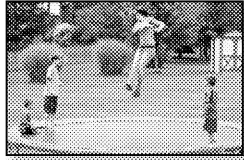
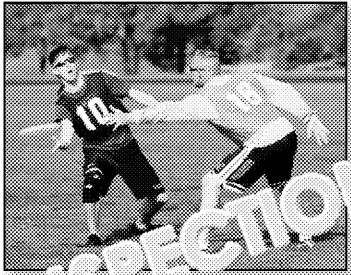
		Questions		
Planes and axes of movement	1. Define the sagittal, frontal and transverse planes of movement.	Sagittal		
		Frontal		
		Transverse		
	2. Label the three planes of motion on the diagram.			
	3. Name and define the three axes of rotation a body can move in.			

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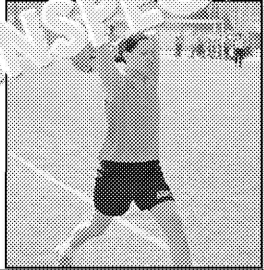
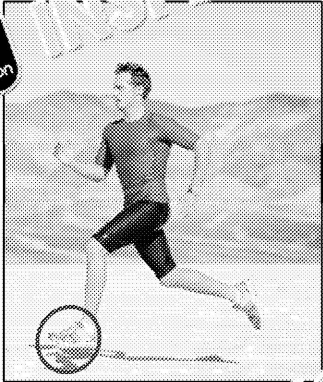
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		Questions	
Planes and axes of movement	<p>4. For each of the following sporting movements, state which plane and axis movement is occurring in.</p>	<p>A diver performing a somersault</p> 	
		<p>A cartwheel</p> 	
		<p>trampoline artist performing a full somersault</p> 	
	<p>5. Perform a movement analysis of the elbow during the execution phase of a frisbee throw.</p> 	<p>Movement at elbow and agonist muscle causing movement</p>	
		<p>Plane of movement</p>	
		<p>Axis of rotation</p>	

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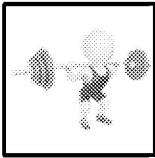


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		Questions		
Planes and axes of movement	<p>6. Perform a movement analysis of a footballer's elbow during a throw-in.</p> 			
		Movement at elbow and agonist muscle causing movement		Mo
		Plane of movement		
		Axis of movement		
	<p>7. Perform a movement analysis of a runner in the recovery stage of a stride.</p> 			
		Movement type		
		Agonist muscle		
		Plane of movement		
		Axis of movement		
		Movement type		
		Agonist muscle		
		Plane of movement		
		Axis of movement		

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Topic 3: Physical Training

3.1. The relationship between health and fitness and 3.2 Components and how fitness is measured



Questions			
Health and fitness and components of fitness	1. Define 'health'.		
	2. Define 'fitness'.		
	3. Define 'exercise'.		
	4. Define 'performance'.		
	5. Describe the relationship between health, fitness, exercise and performance.		
	6. Define each component of fitness in the provided table.		
	Muscular endurance		
	Flexibility		
	Reaction time		
	Body composition		
	Strength		

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Health and fitness and components of fitness	Questions		
	 <p>6. Define each component of fitness in the provided table (continued).</p>	Agility	
		Speed	
		Balance	
		Power	
		Coordination	
		Cardiovascular endurance	
	 <p>7. For each of the components of fitness, name a sporting example that requires that fitness component and justify your answer.</p>	Fitness component	Sporting example
		Muscular endurance	
		Flexibility	
		Reaction time	
		Strength	
		Body composition	

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Questions			
Health and fitness and components of fitness	 <p>7. For each of the components of fitness, name a sporting example that requires that fitness component and justify your answer (continued).</p> 	Power	
		Agility	
		Speed	
		Balance	
		Coordination	
		Cardiovascular endurance	
	8. Would a 50 m sprint swimmer need high levels of muscular endurance? Justify your answer.		
	9. Explain whether a long jumper would benefit from having very good reaction time.		

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Instructions

1. Describe the benefits of, or reasons for, testing an athlete's fitness.



2. Outline the possible limitations of fitness testing.



3. Name and describe the test used to measure flexibility.

Test

Equipment


Protocol

Fitness testing

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		Questions	
Fitness testing	4. Name the test that is used to measure speed.		
	5. Name the component of fitness that can be measured using a hand grip dynamometer. Describe the protocol of this test.	Fitness component	
		Protocol	
6. Draw a sketch to illustrate how the Illinois agility test is completed. Below it, describe the protocol.			

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		Questions		
Fitness testing	7.	An athlete could do the vertical jump test to test which component of fitness?		
	8.	Once 1RM has been established, how is it used to test muscular strength?		
	9.	The Cooper 12-minute test is used to measure cardiovascular fitness. Identify any equipment required and describe the protocol of the test.	Equipment	
	10.	Name another test that can be used to measure cardiovascular fitness.	Protocol	
	11.	Name and describe the test used to test a person's muscular endurance.	Test	
			Protocol	

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Questions			
		Fitness test	Sport/athlete
Fitness testing	<p>12. For each of the following tests suggest whether it is appropriate for the athlete to be used to or not to measure fitness. Justify your answer.</p>	Ruler drop test	Pole vault
		Sit and reach test	Dancer
		Illinois agility test	100 m sprinter
		Vertical jump test	High jumper
		Grin d ometer	Race walking
		Cooper 12-minute swim test	Olympic diver

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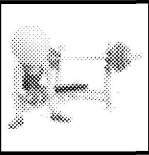


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Questions			
Fitness testing	<p>13. When taking measurements in fitness tests you must make sure you are recording the right type of data.</p> <p>For the following quantities, state the units they should be measured in.</p>	Distance	
		Time	
		Mass	
	14. Define 'qualitative data'.		
	<p>15. Describe quantitative data and give an example of quantitative data that may be collected during a fitness test.</p>	Description	
Example			
16. Explain why quantitative data is useful in fitness testing.			
17. Explain why normative data is useful in fitness testing.			



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Topic 3: Physical Training

3.3 Principles of training and their application to personal exercise programmes

Principles of training and types of training	 <p>Questions</p> <p>1. Describe each principle of training.</p>	Specificity	
		Individual needs	
		Progressive overload	
		Reversibility	
		Overtraining	
	 <p>2. Give a sporting example of how an athlete and/or a coach would consider the principles of training when planning an exercise programme.</p>	Specificity	
		Individual needs	
		Progressive overload	
		Reversibility	
		Overtraining	

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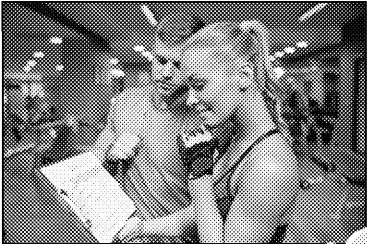
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		Questions	
Principles of training and types of training	<p>3. Explain how overload can occur using the FITT principle.</p>	F	
		I	
		T	
		T	
Principles of training and types of training	<p>4. Explain why a physical fitness readiness or performance questionnaire (PAR-Q) would help to understand the individual needs of a person.</p> <p>What is the importance of this?</p>		
Principles of training and types of training	<p>5. If an athlete wanted to reach their aerobic training target zone, what percentage of their maximum heart rate should the athlete train in?</p>		
Principles of training and types of training	<p>6. If an athlete wanted to reach their anaerobic training target zone, what percentage of their maximum heart rate should the athlete train in?</p>		

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Principles of training and types of training

Questions	Answers	
<p>7. Using a modified version of the Karvonen formula (220 – your age), work out your personal aerobic training zone and then work out your personal anaerobic training zone.</p>	<p>My aerobic training zone</p>	
<p>8. What factors should be considered before choosing the best training method and intensity for an athlete training for a particular sport?</p> 	<p>My anaerobic training zone</p>	

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Principles of training and types of training	Questions	
	Training type	Description
<p>9. Describe the types of training listed, state what fitness components the training improves and give an example of each. For an athlete each training method would be suitable for.</p>	Continuous	
	Fartlek	
	Interval	
	Plyometric	
	Circuit training	
	Weight/resistance	

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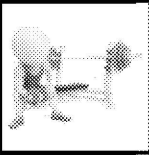
Principles of training and types of training

Questions	Answers	
	Name	Target component of fitness
<p>10. A local leisure centre wants to introduce a range of fitness classes at their complex.</p> <p>To help the leisure centre advertise to its current members and the public, identify the component(s) of fitness each class will target and write an appealing description of each class that will be used for advertising.</p>	Buy pump	
	Aerobics	
	Pilates	
	Yoga	
	Spiral	

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Topic 3: Physical Training

3.3 Principles of training and their application to personal exercise programmes

Advantages and disadvantages of training	Questions		
	<p>1. Give the advantages and disadvantages of continuous training.</p>	Advantages	
	<p>2. Identify the training type shown in the image. What are the advantages and disadvantages of this type of training?</p> 	Training Type:	
Advantages			

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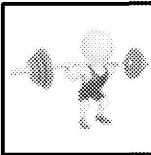


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Advantages and disadvantages of training		Questions
Advantages and disadvantages of training	3. Fartlek training may not be suitable for all athletes depending on the demands of the sport.	
	List the advantages of fartlek training to an athlete.	
		Advantages
	4. Assess the use of interval training, weight training and interval training in competitive fitness.	
		Advantages
		Advantages





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Topic 3: Physical Training

3.5 How to optimise training and prevent injury

Injuries and injury prevention and performance-enhancing drugs	 <p>Questions</p>		
		1	
	 <p>1. Using appropriate examples, explain four injury prevention methods athletes and coaches should adopt in training.</p>	2	
		3	

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Injuries and injury prevention and performance-Enhancing drugs

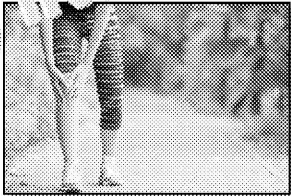
Questions			
<p>2. Identify and describe the injuries that can occur while taking part in physical activity and sport.</p>	Type of injury		
	Type of soft tissue injury		
	of soft tissue injuries		

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Injuries and injury prevention and performance-enhancing drugs

Questions	
<p>3. RICE is an acronym used for the process of treating minor injuries. Using each of the letters given, name the details of each step.</p> 	R
	I
	C
	E
<p>4. There are a number of accessible performance-enhancing drugs (PEDs) which could help optimise performance; however, there are also some physical consequences. Discuss the advantages and disadvantages of each PED for an athlete.</p>	Steroid advantages
	Beta blocker advantages
	Diuretic advantages

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Injuries and injury prevention and performance-enhancing drugs

Questions	Answers
<p>4. There are a number of accessible performance-enhancing drugs (PEDs) which could help optimise performance; however, there are also some physical consequences. Discuss the advantages and disadvantages of each PED for an athlete. (Continued)</p>	Narcotic analgesic advantages
	Erythropoietin advantages
	Growth hormone advantages
Stimulant advantages	
Blood doping advantages	

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Injuries and injury prevention and performance-enhancing drugs

Questions	Answers	
<p>5. For each of the performance-enhancing drugs (PEDs) provided in the table, state which sport each PED is likely to be associated with and justify your answer.</p>	<p>PED</p>	<p>Sport likely to be associated with</p>
	<p>Steroid</p>	
	<p>Beta blocker</p>	
	<p>Diuretic</p>	
	<p>Narcotic analgesics</p>	
	<p>Peptide hormones (Erythropoietin and growth hormone)</p>	
	<p>Stimulant</p>	
	<p>Blood doping</p>	

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Physical Training

3.6 Effective use of a warm-up and cool-down

Warm-ups and cool-downs	Questions	
	 <p>1. Warming up and cooling down well can prevent injury. Name four components that should be part of a warm-up.</p>	1
		2
		3
4		
	 <p>2. Describe the physiological aims or benefits of warming up to an athlete.</p>	
	 <p>3. Plan a warm-up for a footballer prior to a match.</p>	




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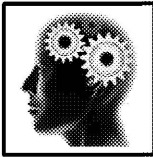
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	Questions	A
Warm-ups and cool-downs	<p>4. Describe the important components of a warm-up that should be included in a cool-down.</p> 	
	<p>5. What benefits does a good cool-down give an athlete?</p> 	
	<p>6. Plan an appropriate cool-down for a hockey player.</p> 	



Topic 4: Use of Data

4.1 Demonstrating a knowledge and understanding, presenting, analysis and evaluating data

		 Questions
Understanding data	1.	Define 'qualitative data'.
	2.	Define 'quantitative data'.
	3.	Give three examples of how to collect qualitative data.
	4.	Give three examples of methods used to collect quantitative data.
	5a.	Below is a 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 being not enjoyable at all and 5 being very enjoyable.'
	5b.	Below is another question taken from the same questionnaire. State whether the answers would be qualitative or quantitative. Give a reason for your answer. 'Please write the feedback you have for your lacrosse coach in the space provided below.'

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Understanding data

Questions

6. Draw a bar chart of the height jumped by a college basketball player during fitness testing using the following data:

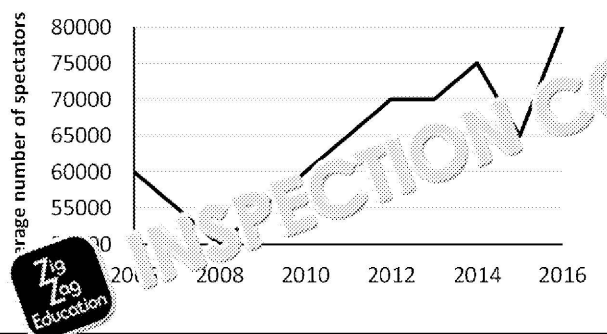


Attempt	Distance (cm)
1	25
2	29
3	30
4	33
5	35

7. In recent years, commercialisation of sport has meant that there have been significant changes in spectatorship.

Below is a line graph showing data regarding the average number of spectators in a stadium all ground over the last 10 years.

Answer the questions to the right using the graph.



a. In what year did the number of spectators hit its lowest?

b. Between what years did the average number of spectators remain the same?

c. Describe the trend of spectators between the years 2013 and 2016.

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