Mark schemes are prepared by the Lead Assessment Writer and considered, together with the relevant questions, by a panel of subject teachers. This mark scheme includes any amendments made at the standardisation events which all associates participate in and is the scheme which was used by them in this examination. The standardisation process ensures that the mark scheme covers the students’ responses to questions and that every associate understands and applies it in the same correct way. As preparation for standardisation each associate analyses a number of students’ scripts. Alternative answers not already covered by the mark scheme are discussed and legislated for. If, after the standardisation process, associates encounter unusual answers which have not been raised they are required to refer these to the Lead Assessment Writer.

It must be stressed that a mark scheme is a working document, in many cases further developed and expanded on the basis of students’ reactions to a particular paper. Assumptions about future mark schemes on the basis of one year’s document should be avoided; whilst the guiding principles of assessment remain constant, details will change, depending on the content of a particular examination paper.

Further copies of this mark scheme are available from aqa.org.uk
Level of response marking instructions

Level of response mark schemes are broken down into levels, each of which has a descriptor. The descriptor for the level shows the average performance for the level. There are marks in each level.

Before you apply the mark scheme to a student’s answer read through the answer and annotate it (as instructed) to show the qualities that are being looked for. You can then apply the mark scheme.

Step 1 Determine a level

Start at the lowest level of the mark scheme and use it as a ladder to see whether the answer meets the descriptor for that level. The descriptor for the level indicates the different qualities that might be seen in the student’s answer for that level. If it meets the lowest level then go to the next one and decide if it meets this level, and so on, until you have a match between the level descriptor and the answer. With practice and familiarity you will find that for better answers you will be able to quickly skip through the lower levels of the mark scheme.

When assigning a level you should look at the overall quality of the answer and not look to pick holes in small and specific parts of the answer where the student has not performed quite as well as the rest. If the answer covers different aspects of different levels of the mark scheme you should use a best fit approach for defining the level and then use the variability of the response to help decide the mark within the level, ie if the response is predominantly level 2 with a small amount of level 3 material it would be placed in level 2 but be awarded a mark near the top of the level because of the level 3 content.

Step 2 Determine a mark

Once you have assigned a level you need to decide on the mark. The descriptors on how to allocate marks can help with this. The exemplar materials used during standardisation will help. There will be an answer in the standardising materials which will correspond with each level of the mark scheme. This answer will have been awarded a mark by the Lead Examiner. You can compare the student's answer with the example to determine if it is the same standard, better or worse than the example. You can then use this to allocate a mark for the answer based on the Lead Examiner’s mark on the example.

You may well need to read back through the answer as you apply the mark scheme to clarify points and assure yourself that the level and the mark are appropriate.

Indicative content in the mark scheme is provided as a guide for examiners. It is not intended to be exhaustive and you must credit other valid points. Students do not have to cover all of the points mentioned in the Indicative content to reach the highest level of the mark scheme.

An answer which contains nothing of relevance to the question must be awarded no marks.
01 Which one of these is an immediate effect of exercise?  [1 mark]

Marks for this question: AO1 = 1

D

02 Which one of these performers relies most heavily on their cardiovascular endurance?  [1 mark]

Marks for this question: AO2 = 1

B

03 Which one of these shows how to calculate the mechanical advantage of a lever?  [1 mark]

Marks for this question: AO1 = 1

B

04 Which one of these describes flexibility?  [1 mark]

Marks for this question: AO1 = 1

C

05 Which one of these causes plantar flexion at the ankle?  [1 mark]

Marks for this question: AO1 = 1

A

A06 Which bones are found at the shoulder joint?  [1 mark]

Marks for this question: AO1 = 1

C

07 Which bones are found at the elbow joint?  [1 mark]

Marks for this question: AO1 = 1

B
08 Using an example from a sport of your choice, identify the two types of movement that can occur at a hinge joint.

Marks for this question: AO1 = 2, AO2 = 2

AO1
- Flexion (1)
- Extension (1)

AO2
Answers must contain the movement and a relevant sporting example.
- (Flexion) lifting a hockey stick in preparation to strike the ball (1)
- (Extension) movement of the stick downwards to strike the ball (1)

Accept any suitable sporting example to identify movement. Answers must be relevant to either flexion or extension at a hinge joint.

Maximum 4 marks

09 Breathing enables gaseous exchange to occur at the alveoli.

Outline how two features of the alveoli assist in gaseous exchange.

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Large surface area of alveoli to allow larger volumes of gases / oxygen and carbon dioxide to move between the lungs and the bloodstream (1)
- Moist thin walls / one cell thick creating a short distance for diffusion / short diffusion pathway (1)
- Lots of capillaries around the alveoli so large area for gas exchange (1)
- Large blood supply to carry gases / oxygen and carbon dioxide (1)
- Movement of gas from high concentration to low concentration means there is a pressure gradient which allows diffusion to occur (1)

Accept any other suitable outline of how features of the alveoli assist in gaseous exchange. Answers must link the feature to how it assists in gaseous exchange.

Maximum 2 marks
Flat bones provide a protective function within the body.

Name two flat bones and, using a sporting action of your choice, suggest how these bones provide protection during performance.

[4 marks]

Marks for this question: AO1 = 2, AO2 = 2

Award one mark for each of the following points up to a maximum of four marks. Award up to a maximum of two AO1 marks and up to a maximum of two AO2 marks.

- Cranium (1 x AO1)
  - Provides protection for the brain whilst heading a football / equivalent (1 x AO2)

- Sternum (1 x AO1)
  - Provides protection to the heart when controlling a football on the chest / equivalent (1 x AO2)

- Scapula (1 x AO1)
  - Provides protection for the shoulder joint during contact made with another player when catching a netball / equivalent (1 x AO2)

- Ribs (1 x AO1)
  - Protect the lungs during any impact with a hockey ball / equivalent (1 x AO2)

- Pelvis (1 x AO1)
  - Protects the reproductive system / bladder during contact made in a rugby tackle / equivalent (1 x AO2)

The bones can be credited for AO1 (up to a maximum of 2 marks) but the example must be applied to the protective role of the named bone during a sporting action for AO2 (up to a maximum of 2 marks). Alternative appropriate sporting actions can be credited.

Maximum 4 marks

Figure 1 shows a young athlete running. The running action involves the use of many joints within the body.

Identify the type of synovial joint working at the shoulder.

[1 mark]

Marks for this question: AO1 = 1

Award one mark for each of the following points up to a maximum of one mark.

- Ball and socket (1)
11.2 Outline how two of the features of the shoulder joint aim to prevent injury occurring. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Shape of the articular surface / bones – allows bones to fit together (1)
- Ligaments – attach bone to bone / restrict movement (1)
- Joint capsule / fibrous capsule – lined with synovial membrane / encloses / supports / joints (1)
- Synovial membrane – secretes synovial fluid (1)
- Synovial fluid – provides lubrication (1)
- Cartilage (hyaline / articular) – prevents friction / stops bones rubbing together (1)
- Bursae (sacks of fluid) – to reduce friction (1)

Accept any other suitable explanation of features of the shoulder joint that prevent injury occurring. Answers must refer to the shoulder joint.

Maximum 2 marks

11.3 Identify the plane and the axis about which the running action takes place. [2 marks]

Marks for this question: AO2 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Sagittal (plane) (1)
- Transverse (axis) (1)

Maximum 2 marks

12 Figure 2 shows a diagram of the heart.

Using Figure 1, identify the names of the chambers of the heart labelled X and Y. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- X. (Left) atrium (1)
- Y. (Left) ventricle (1)

Maximum 2 marks
13 Define cardiac output.

Marks for this question: AO1 = 1

Award one mark for either of the following points up to a maximum of one mark.

- The amount of blood ejected / pumped from the heart in one minute (1)
- Stroke volume x heart rate (1)

Accept any other suitable definition of cardiac output.

Maximum 1 mark

14 In 1999, Michael Johnson set a new world record for the 400m with a time of 43.18 seconds.

14.1 Justify why his performance was mainly aerobic or anaerobic.

Marks for this question: AO2 = 1, AO3 = 3

Award one mark for each of the following points up to a maximum of four marks.

AO2
- Anaerobic (1)

AO3 (sub-max 3 marks)
- 400m is a sprint event and all sprint events are anaerobic (1)
- Maximal intensity / effort and low duration means insufficient oxygen is available to work aerobically (1)
- Energy demand is higher than oxygen available, therefore anaerobic (1)
- No reduction in intensity / time to rest to repay oxygen debt (1)
- Body uses glucose → energy + lactic acid because of the lack of oxygen (1)

Accept any other suitable justification as to why the 400m is an anaerobic event. Answers must include a reasoned justification, linking the demands of the event to how energy is produced.

Maximum 4 marks

14.2 Athletes work at a percentage of maximal heart rate when training.

How is maximal heart rate calculated?

Marks for this question: AO1 = 1

Award one mark for each of the following points up to a maximum of one mark.

- Maximum heart rate (220 bpm) minus age / 220 – age (1)

Maximum 1 mark
15.1 Complete Table 1 to show the joint action occurring at the knee from position A to position B and the agonist muscle group that causes this action. [2 marks]

**Marks for this question:** AO2 = 2

Award one mark for each of the following points up to a maximum of two marks.

<table>
<thead>
<tr>
<th>Joint action</th>
<th>Agonist muscle group</th>
</tr>
</thead>
<tbody>
<tr>
<td>Extension (1)</td>
<td>Quadriceps (1)</td>
</tr>
</tbody>
</table>

Maximum 2 marks

15.2 The vertical jump test measures leg power.

Discuss the suitability of this test for a football player. [3 marks]

**Marks for this question:** AO3 = 3

Award one mark for each of the following points up to a maximum of three marks.

**Agree** (sub-max 2 marks)
- Leg power is a component of fitness needed by football players to perform specific skills (1)
- The test measures the ability to jump up so appropriate for jumping to head the ball / a goalkeeper to launch into a save / other equivalent example (1)

**Disagree** (sub-max 2 marks)
- The test is not sport-specific as would not test power needed to kick a ball / start a sprint towards the ball / other equivalent example (1)
- Does not test many aspects of playing football, eg dribbling / marking / other equivalent example (1)
- Can be argued that other aspects of fitness are more important, eg cardiovascular endurance to last 90 minutes (1)

Accept any other suitable discursive point around the suitability of leg power to football. Maximum 3 marks
16 Zack is a 16-year-old GCSE PE student. He is just about to play a game of basketball for his school team.

16.1 Zack’s respiratory system will experience a number of changes before and during the game of basketball.

Define the terms tidal volume and residual volume. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Tidal volume – volume of air inspired or expired / exchanged per breath (1)
- Residual volume – volume of air left in the lungs after maximal expiration (1)

Accept any other suitable definitions of tidal volume and residual volume. Maximum 2 marks

16.2 Outline what will happen to Zack’s tidal volume and residual volume once exercise starts. [2 marks]

Marks for this question: AO2 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Tidal volume increases (once exercise starts) (1)
- Residual volume stays the same (once exercise starts) (1)

Maximum 2 marks

16.3 Figure 4 shows a basketball player jumping to execute a shot.

Draw the lever system which operates at the ankle joint, labelling the fulcrum, effort and load. [1 mark]

Marks for this question: AO1 = 1

Award one mark for labelling the effort, load / resistance and fulcrum in the correct order.

Load / resistance

Effort Fulcrum

(1) Maximum 1 mark
Discuss the appropriateness of continuous training for a games player like Zack.

Marks for this question: AO3 = 4

Award one mark for each of the following points up to a maximum of four marks.

Agree (sub-max 3 marks)
- Continuous training improves the aerobic system and games need aerobic energy (1)
- Games tend to last a long time, e.g. 48 minutes in Basketball, and continuous training can mimic the duration (1)
- The main movement can be replicated in continuous training, e.g. running action which is generally required in games (1)
- Relatively simple to use in training, e.g. requires little or no equipment (1)

Disagree (sub-max 3 marks)
- Continuous training is not necessarily sport specific, for example running doesn’t always mimic all the skills required (1)
- Games require aerobic and anaerobic energy and continuous training improves the aerobic system (1)
- Games stop and start, and change intensity which is different to continuous training (1)
- Wouldn’t apply to all positions in all games, for example a goalkeeper / a wicketkeeper (1)
- Other types of training may be more appropriate and sport specific, for example Fartlek training (1)

Accept any other suitable discursive point around the appropriateness of continuous training for a games player.

Maximum 4 marks

Training in sport is often structured into seasons.

Outline two reasons why performers take part in pre-season training.

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Increase aerobic fitness / general fitness so that they are ready / match fit for the start of the season (1)
- Increase specific fitness, e.g. weight training for strength (1)
- Develop techniques and skills which are specific to the sport (1)

Accept any other suitable outline of reasons why performers take part in pre-season training. Answers must refer to general / specific fitness or technique and skills. Answers must be outlined rather than simple statements.

Maximum 2 marks
Fitness testing is often used as a motivational tool.

18.1 State two other reasons why fitness testing is carried out. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- To identify strengths and / or weaknesses in a performance (1)
- To evaluate the success of a training programme (1)
- To monitor improvement, eg in strength (1)
- To show a starting level of fitness (1)
- To inform training requirements (1)
- To compare against norms of the group / national averages (1)

Accept any other suitable reason why fitness testing is carried out. Do not credit any response linked to motivation.

Maximum 2 marks

18.2 The Illinois Agility Test is a maximal test that measures agility.

Describe how to carry out this test. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

AO1

- 10m long x 5m wide / 60m in total (1)
- Subject starts lying down (on their front) (1)
- Subject sprints and weaves around cones (accept diagram) (1)
- Time taken / measured in seconds = agility (1)

Accept any other suitable description of how to carry out the Illinois Agility Test.

Maximum 2 marks
Before carrying out a weight training session using heavy weights, Robert carries out an appropriate warm up, including stretching of the major muscles that will be used.

19.1 Explain what other factors Robert should consider to reduce the chance of injury occurring during the session.

Marks for this question: AO2 = 3

Award one mark for each of the following points up to a maximum of three marks.

The answer must include the factor to consider and an explanation that is applied to a weight training session.

- Robert should ensure that he understands the correct lifting technique before starting the session (1)
- Robert should ensure that he has a ‘spotter’ available for the session (1)
- Robert should plan to avoid over-training by following the correct intensity / use of one rep max test to calculate correct intensity (1)
- Robert should wear appropriate clothing / footwear during the session, eg a clothing that cannot get caught in the weights / footwear to provide support during weight lifting whilst standing (1)
- Robert should use taping / bracing to protect wrists / elbow support when lifting weights (1)

Accept any other suitable explanation of what should be considered at the start of a weight training session to reduce the chance of injury occurring. Explanation must be applied to a weight training session.

Maximum 3 marks

Figure 6 shows a performer weight training. This movement is brought about by the muscular and skeletal systems working together.

Explain how the muscles and bones work together to produce the movement from Picture A to Picture B.

Marks for this question: AO2 = 3

Award one mark for each of the following points up to a maximum of three marks. Answers must refer to the movement from A to B

- Bicep is the agonist / the prime mover which contracts / shortens to cause the movement from A to B (1)
- Biceps are attached to bones in the lower arm via tendons (1)
- Biceps contraction causes a pull on the bones in the lower arm (radius) (1)
- Causing flexion at the elbow (1)
- Tricep is the antagonist which relaxes / lengthens during the movement (1)
- Contraction of the bicep allows movement at the third class lever (1)

Accept any other suitable explanation of how the muscles and bones work together to produce the movement from Position A to Position B.

Maximum 3 marks
19.3 After performing any period of training, a cool down is important.

Identify two parts of an effective cool down. [2 marks]

Marks for this question: AO1 = 2

Award one mark for each of the following points up to a maximum of two marks.

- Maintain elevated breathing and heart rate, eg walk, jog to gradually reduce heart rate (1)
- Aim to gradually reduce intensity of exercise / don’t just stop (1)
- Stretching of major muscles used in that session (1)

Accept any other suitable identification of part of an effective cool down. Maximum 2 marks

20.1 Table 2 shows the heart rates recorded by a 20-year-old athlete. Heart rates have been recorded every two minutes.

Plot the information shown in Table 2 on the graph paper below to show how heart rate has changed over time. Label the axes and join up the points to make a line graph. [3 marks]

Marks for this question: AO2 = 3

Award one mark for each of the following points up to a maximum of four marks.

- Correctly labelled x axis (time minutes) and correctly labelled y axis (heart rate bpm) (1)
- Appropriate numbering on each axis (1)
- Points plotted correctly and joined up (1)

Maximum 3 marks
20.2 Analyse the data shown in Table 2. Consider what has happened to the athlete between:

- 4 and 6 minutes and;
- 6 and 12 minutes.

Marks for this question: AO3 = 2

Award two marks for each of the following points up to a maximum of two marks.

- 4 to 6 minutes: Increase in intensity / running speed / possibly started running after warm up (1)
- 4 to 6 minutes: Possibly an anticipatory rise (1)
- 6 to 12 minutes: Intensity has remained the same / running speed has remained constant / steady state running (1)

Accept any other relevant suggestion of what has happened to the athlete between 4 and 6 minutes, and/or 6 and 12 minutes. Answers must be related to an analysis of the data shown in Table 2.

Maximum 2 marks
Using your knowledge of agility and reaction time, evaluate the importance of these components of fitness for performers in the 100m sprint.

Marks for this question: AO1 = 1, AO2 = 2 and AO3 = 3

<table>
<thead>
<tr>
<th>Level</th>
<th>Marks</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>5–6</td>
<td>Knowledge of agility and reaction time is accurate and generally well detailed. Application to performers in the 100m sprint is mostly appropriate, clear and effective. Evaluation is thorough, reaching valid and well-reasoned conclusions for both components of fitness. The answer is generally clear, coherent and focused, with appropriate use of terminology throughout.</td>
</tr>
<tr>
<td>2</td>
<td>3–4</td>
<td>Knowledge of agility and reaction time is evident for both agility and reaction time but is more detailed for one than the other. There is some appropriate and effective application to performers in the 100m sprint, although not always presented with clarity. Any evaluation is clear but reaches valid and well-reasoned conclusions for one component of fitness more than the other. The answer lacks coherence in places, although terminology is used appropriately on occasions.</td>
</tr>
<tr>
<td>1</td>
<td>1–2</td>
<td>Knowledge of agility and reaction time is limited. Application to performers in the 100m sprint is either absent or inappropriate. Evaluation is poorly focused or absent, with few or no reasoned conclusions for either component of fitness. The answer as a whole lacks clarity and has inaccuracies. Terminology is either absent or inappropriately used.</td>
</tr>
<tr>
<td>0</td>
<td></td>
<td>No relevant content.</td>
</tr>
</tbody>
</table>

Possible content may include:

**AO1 – Knowledge of agility and reaction time, eg**
- Agility – changing direction at speed, whilst maintaining control
- Reaction time – time taken to initiate response to a stimulus

**AO2 – Application to the 100m, eg**
- 100m sprint does not need agility because it is run in a straight line and therefore changing of direction is not required
- 100m does need reaction time because runners start in a stationary position and have to react to the gun (stimulus) at the start

**AO3 – Analysis/evaluation of the importance of agility and reaction time in 100m, eg**
- Agility – any changes in direction could result in leaving a lane and being disqualified
- Agility – need to change direction is unlikely. However, athlete may change their positioning within their own lane
- Reaction time – 100m is the shortest outdoor sprint event and therefore reaction time at the start of the event is usually crucial to success
- Reaction time – is a major component impacting on overall time taken to complete the 100m sprint
- Reaction time – it is possible to win a race with a poor reaction time start
- Neither agility nor reaction time is as important as speed

Credit other suitable responses relevant to the question.
With reference to a named sporting activity, outline what plyometric and fartlek training are, and justify why they are both relevant to performers in that activity.

Marks for this question: AO1 = 2, AO2 = 2, AO3 = 5

<table>
<thead>
<tr>
<th>Level</th>
<th>Marks</th>
<th>Description</th>
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<tr>
<td>3</td>
<td>7–9</td>
<td>Knowledge of plyometric and fartlek training is accurate and generally well detailed. Application to a named sporting activity is mostly appropriate, clear and effective. Justification is thorough, reaching valid and well-reasoned conclusions for both training types. The answer is generally clear, coherent and focused, with appropriate use of terminology throughout.</td>
</tr>
<tr>
<td>2</td>
<td>4–6</td>
<td>Knowledge of plyometric and fartlek training is evident but is more detailed for one than the other. There is some appropriate and effective application to a named sporting activity, although not always presented with clarity. Any justification is clear but reaches valid and well-reasoned conclusions for one training type more than the other. The answer lacks coherence in places, although terminology is used appropriately on occasions.</td>
</tr>
<tr>
<td>1</td>
<td>1–3</td>
<td>Knowledge of plyometric and fartlek training is limited. Application to a named sporting activity is either absent or inappropriate. Justification is poorly focused or absent, with few or no reasoned conclusions for either training type. The answer as a whole lacks clarity and has inaccuracies. Terminology is either absent or inappropriately used.</td>
</tr>
<tr>
<td></td>
<td>0</td>
<td>No relevant content.</td>
</tr>
</tbody>
</table>

Possible content may include:

Indicative content linked to Netball but can be applied to any named sporting activity.

**AO1 – knowledge of plyometric training and fartlek training, eg**

- Plyometric training – type of training designed to improve power (Speed x strength) through bounding / hopping / jumping, etc
- Fartlek training – periods of fast work with intermittent periods of slower work, often running, eg sprint, jog, walk, jog, sprint etc

**AO2 – application to named sporting activity (must include links to the activities chosen), eg**

- (Netball) as a sport requires lower body power to jump/ sprint/ upper body power to throw the ball
- (Netball) as a sport involves running at different speeds, eg sprint, jog, walk, etc

**AO3 – Justifications made with specific reasoned conclusions fully linked and appropriate to named sporting activity, eg**

- Plyometrics involves jumping which is a vital component of netball to reach for the ball / intercept
- Can mimic many of the other specific movements required in netball (with an example), eg double dodge
- Plyometrics can specifically improves leg power which can be vital to netball, eg to maintain possession following a rebound
- Players can throw from the start of one third to the end of the next (specific rule knowledge) so may need upper body power
- Can easily be included within a netball training session to complement other (named) training types, eg continuous training, agility etc
- Plyometrics requires little or no specific equipment- therefore easily integrated into a netball session
Can be specifically designed / altered for a netball training session, jumping to reach a ball, sprint dodge, quick catch and forceful release, etc

Plyometrics can be completed by large groups, eg a netball squad

Give some credit for a reasoned response that suggests that power is not the most important component in netball and can be limited in training in favour of other training types which are deemed more important, eg agility

Fartlek training usually involves running and this is a vital component of being able to play netball / accept reverse – very difficult to play whilst still / stationary

Can mimic many of the specific movements required when playing a match, eg sprinting for space

Netball requires performers to vary intensity in order to outwit opponents, ie reasoned judgement linking change of intensity to outwitting marker /opponents

Netball tends to use one to one marking and therefore changing intensity is a vital component in order to mark your opposing player who will also change intensity

Fartlek can easily be incorporated into a netball training session, eg sprint / dodge / walk, etc

Fartlek can be completed on a netball court / sports hall as it requires no specific equipment

Fartlek can be carried out by a large group, eg a netball squad

Give some credit for a reasoned response that suggests that fartlek training is not the most important training type in netball and can be ‘limited / reduced’ in training in favour of other training types which are deemed more important, eg agility

Credit other suitable responses relevant to the question.
## Component 1 – The human body and movement in physical activity and sport
### Assessment objective grid

<table>
<thead>
<tr>
<th>Question</th>
<th>AO1</th>
<th>AO2</th>
<th>AO3</th>
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