

Mark Scheme (Results)

November 2020

Pearson Edexcel GCSE In Physical Education (1PE0) Paper 01 Fitness and Body Systems

Edexcel and BTEC Qualifications

Edexcel and BTEC qualifications are awarded by Pearson, the UK's largest awarding body. We provide a wide range of qualifications including academic, vocational, occupational and specific programmes for employers. For further information visit our qualifications websites at <u>www.edexcel.com</u> or <u>www.btec.co.uk</u>. Alternatively, you can get in touch with us using the details on our contact us page at <u>www.edexcel.com/contactus</u>.

Pearson: helping people progress, everywhere

Pearson aspires to be the world's leading learning company. Our aim is to help everyone progress in their lives through education. We believe in every kind of learning, for all kinds of people, wherever they are in the world. We've been involved in education for over 150 years, and by working across 70 countries, in 100 languages, we have built an international reputation for our commitment to high standards and raising achievement through innovation in education. Find out more about how we can help you and your students at: www.pearson.com/uk

November 2020 Publications Code 1PE0_01_2011_MS All the material in this publication is copyright © Pearson Education Ltd 2019

General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.

| Question Number | Answer AO1 – 1 mark | Mark |
|--------------------|---|------|
| 1 (a) | The only correct answer is D – (Left) ventricle | |
| | A is not correct because this is the vena cava | |
| | B is not correct because this is the left atrium | |
| | C is not correct because this is the tricuspid valve | (1) |

| Question Number | Answer AO2 – 1 mark | Mark |
|--------------------|--|------|
| 1 (b) | The only correct answer is D – Third class lever system | |
| | A , B and C are not correct because this is a third class lever as the effort is between the fulcrum and the resistance or load | (1) |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO3 – 1 mark | |
| 1 (c) | | |
| | The only correct answer is B – Excellent | |
| | | |
| | A is not correct because range is 18.1 – 16.2 therefore longer than 15.1s | |
| | C is not correct because range is 19.1 – 18.2 therefore longer than 15.1s | |
| | D is not correct because range is 16.1 – 15.2 therefore longer than 15.1s | (1) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO1 – 1 mark | |
| 1 (d) | | |
| | The only correct answer is B – Grip dynamometer | |
| | | |
| | A is not correct because this measures speed | |
| | | |
| | C is not correct because this measures muscular | |
| | endurance | |
| | | |
| | D is not correct because this measures muscular | |
| | endurance | (1) |
| | | |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO1 – 1 mark | |
| 1 (e) | | |
| | The only correct answer is B – Progressive overload | |
| | | |
| | A is not correct because overtraining means too much training leading to injury | |
| | C is not correct because reversibility means a reduction in training so loss of fitness | |
| | D is not correct because specificity means matching training to needs of activity | (1) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO1 – 1 mark | |
| 1 (f) | The only correct answer is A – Circuit training | |
| | B is not correct because interval training is repeated high intensity with recovery periods | |
| | C is not correct because plyometric training is bounding exercises lengthening the muscle and then suddenly contracting to increase power | |
| | D is not correct because weight training is the use of resistance using sets and reps to improve strength or muscular endurance | (1) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO3 – 1 mark | |
| 1 (g) | The only correct answer is C – Indicate interval training session | |
| | A is not correct because heart rate remains constant at 70bpm indicates at rest | |
| | B is not correct because initial increase in heart rate and then constant – indicates continuous training | |
| | D is not correct because gradual increase and then gradual decrease – no repeated sets | (1) |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO1 – 1 mark | |
| 1 (h) | | |
| | The only correct answer is A – Body pump | |
| | | |
| | B is not correct because this use of mats and possibly | |
| | resistance bands but does not involve the traditional use of | |
| | weights | |
| | | |
| | C is not correct because this use of exercise bikes | |
| | | |
| | D is not correct because this use of mats | (1) |
| | | |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO1 – 1 mark; AO2 – 2 marks | |
| 2 (i) | 1 mark for each correct part of the answer Vital organs/organs (1) Cranium/skull (1) Brain (1) | (3) |

| Question | Answer | Mark |
|----------|---------------------------|------|
| Number | AO1 – 1 mark | |
| 2 (ii) | 1 mark for correct answer | |
| | • Platelets (1) | |
| | Accept phonetic spelling | (1) |

| Question | Answer | Mark | | |
|----------|------------------------------------|------|--|--|
| Number | AO1 – 1 mark | | | |
| 2 (iii) | | | | |
| | 1 mark for correct answer | | | |
| | | | | |
| | • White (1) | | | |
| | Accept other appropriate responses | | | |
| | Accept phonetic spelling | (1) | | |

| Question Number | Answer AO1 – 3 mark | κs | | Mark | |
|--------------------|---|--|--|------|--|
| 3 (a & b) | 1 mark for ea | | | | |
| | Bone | (a) Range of movement possible at each type of joint | (b) Example of type of joint in the body | | |
| | Pivot | Rotation (1) | Atlas and axis (1) | | |
| | Hinge | Flexion to extension (1) | Knee/elbow (1) | | |
| | Ball and socket | Abduction to adduction (1) | Hip/shoulder (1) | | |
| | NB Must be range – i.e. flexion and extension etc | | | | |
| | Accept other PART (a) Accept rotations socket NB Can credit provided cor | appropriate response on and flexion to exte it same range of motio rect for stated joint ty | es nsion for ball and on across joint types, pe | | |
| | PART (b) Accept exam incorrect ran independent | ple if correct for type ge of movement giver ly of (a) | of joint, even if n i.e. mark this | (6) | |

| Question Number | Answer AO1 – 1 mark; AO3 – 1 mark | Mark |
|--------------------|---|------|
| 3 (c) | For example: They are weight bearing/strong (1) this means the diver can start the dive on his hands/take his weight on his hands (to get more points for a harder dive) (1) | |
| | Accept other appropriate responses 1 mark for identification of use (AO1) 1 mark for the importance of this on the diver (AO3) | (2) |

| Question | Answer | Mark | | |
|----------|--|------|--|--|
| Number | AO1 – 2 marks | | | |
| 4 (a) | 1 mark for each correct energy source | | | |
| | AnaerobicCarbohydrate (1) | | | |
| | Aerobic • Fat (1) | | | |
| | Accept other appropriate response | | | |
| | NB Can accept carbohydrate/glycogen/glucose for either system BUT not both | | | |
| | DNA Examples of energy sources, e.g. pasta | | | |
| | DNA Carbs as not correct technical language | (2) | | |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO1 – 2 marks | |
| 4 (b) | Anaerobic (1) because oxygen is not used /is not available (1) | |
| | Accept other appropriate responses | |
| | 1 mark for correct identification of exercise type 1 mark for suitable expansion indicating why lactic acid is produced | |
| | | (2) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO1 – 1 mark; AO3 – 3 marks | |
| 5 (a) | For example: Because in second class lever systems the resistance falls between the fulcrum and the effort (1), this is shown in Figure 4 as the body weight is the resistance (1) the fulcrum is the ball of the foot (1) and the effort is the force produced by the muscle/gastrocnemius (1) | |
| | Accept other appropriate response | |
| | Effort from from from nuscle (1) Load/resistance Fulcrum (1) load/resistance fulcrum and (1) fulcrum and 1 mark for identification of characteristic of second | |
| | 1 mark for identification of characteristic of second class lever system (AO1) 1 mark for each aspect of analysis to justify why this ais a second class lever (AO3) – maximum of 3 marks for this aspect | (4) |

| Question | Answer | Mark |
|-----------------|---|------|
| Number | AO1 – 1 mark; AO2 – 1 mark | |
| Number 5 (b) | AO1 – 1 mark; AO2 – 1 mark For example: Because the body is a heavy load that needs to be lifted off the ground (1) which can be moved by a relatively small amount of force from the muscle (to give the jumper the required height) (1) Because the effort arm is longer than the resistance arm (1) therefore a heavy load/weight | |
| | of jumper can be lifted with relatively little effort (1) Accept other appropriate responses 1 mark for reference to the body weight being a heavy load (AO2) 1 mark for this being relatively easy to move (AO1) | (2) |

| Question Number | Answer AO2 – 2 marks | Mark | | | | |
|--------------------|--------------------------------|-------------|--------------|-----|--|--|
| 6 (a) | | | | | | |
| | Movement pattern Plane Axis | | | | | |
| | Cartwheel | Frontal (1) | Sagittal (1) | | | |
| | | | | (2) | | |

| Question Number | Answer AO2 – 2 marks | Mark | | | | |
|--------------------|-------------------------|--------------|-------------|-----|--|--|
| 6 (b) | | | | | | |
| | Movement pattern | Plane | Axis | | | |
| | Piked somersault | Sagittal (1) | Frontal (1) | | | |
| | | L | l1 | (2) | | |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO2 – 1 mark; AO3 – 1 mark | |
| 7 (a) | For example Gastrocnemius contracts/ is the agonist/the antagonistic pair allow plantar-flexion at the ankle (1) which means greater force can be applied/can jump higher/can push off the ground to take off | |
| | (1) Accept other appropriate responses. 1 mark for analysis of antagonistic action (AO3) 1 mark for impact on performance (AO2) | (2) |

| Question | Answer | Mark |
|-----------|---|------|
| Number | AO1 – 1 mark | |
| 7 (b) (i) | (b) (i) 1 mark for the correct identification of the component of fitness | |
| | • Flexibility (1) | |
| | Accept phonetic spelling | (1) |

| Question | Answer | Mark |
|------------|---|------|
| Number | AO1 – 1 mark | |
| 7 (b) (ii) | 1 mark for the correct identification of the component of fitness | |
| | Cardiovascular fitness (1) | |
| | Accept other appropriate responses | |
| | DNA Stamina DNA endurance | (1) |

| Question | Answer | Mark |
|-------------|---|------|
| Number | AO1 – 1 mark | |
| 7 (b) (iii) | | |
| | 1 mark for the correct identification of the component of fitness | |
| | • Power (1) | (1) |

| Question | Answer | | | | Mark | |
|----------|--|--|-----------|-----------------------------|------|--|
| Number | AU | 2 – T Mark; AU3 | - I Ma | ſĸ | | |
| 7 (c) | | Fitness test | Rating | Component of fitness tested | | |
| | (i) | Sit and reach test | Excellent | (1) | | |
| | (ii) | Cooper 12-minute swim | Average | (1) | | |
| | (iii) | Vertical jump test | Average | (1) | | |
| | For example: | | | | | |
| | • Power (as only achieved average) (1) to jump higher/get height (to clear the bar) (1) | | | | | |
| | Acc | ept other appro | priate r | responses | | |
| | NB | No marks awar | | | | |
| | 1 m to k 1 m cor | nark for analysis pe improved (AC nark for explanat ntext (AO2) | (2) | | | |

| Question | Answer | | | Mark | |
|----------|--------|-----------------------|---------------|------------------------------------|-----|
| Number | AO. | 2 – 2 marks; AO3 | 3 – 1 ma | ark | |
| 7 (a) | | | | | |
| | | Fitness test | Rating | Component of fitness tested | |
| | (i) | Sit and reach test | Excellent | | |
| | | | | (1) | |
| | (ii) | Cooper 12-minute swim | Average | (1) | |
| | (11) | | | | |
| | (11) | vertical jump test | Average | (1) | |
| | For | example: | | | |
| | | Cooper 12-r | ninute | swim (1) as the test is not | |
| | | specific to t | heir spo | ort (1) as high jumpers do | |
| | | not perforn | n in wa | ter/swim (1) | |
| | | Cooper 12-n | ninute s | swim (1) as it is not specific to | |
| | | their sport (| 1) as it o | does not test a relevant | |
| | | component | , of fitne | ss for high jump (1) | |
| | | Cooper 12-n | ninute | swim (1) as it is a test of CV | |
| | | fitness (1) bi | it high | iumpers work at maximal | |
| | | intensity/do | not wo | rk at low to moderate | |
| | | intensity/do | not wo | rk for a long period of time | |
| | | (1) | not wo | | |
| | | | • | | |
| | Acc | ept other appro | priate r | responses | |
| | 1 m | nark for analysis | of data | to determine area of | |
| | fitn | ess/fitness test l | east re | levant to high jump (AO3) | |
| | 1 m | hark for why test | is leas | t relevant to HJ (AO2) | |
| | 1 m | hark for explanat | tion lini | ked to high jump (AO2) | (3) |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO1 – 3 marks | |
| 7 (e) | 1 mark for each correct statement within the linked description For example: | |
| | Training method using bounding/jumping (1) where the muscles lengthen (on landing) (1) and then quickly shorten (for the next jump) (1) Training method using quick powerful/high intensity movements (1) so the muscles contract eccentrically (1) immediately followed by a concentric contraction (1) | |
| | Accept other appropriate responses | |
| | 1 mark for example of activity within plyometrics 1 mark for description of muscle action lengthening 1 mark for description of muscle then immediately shortening | (3) |

| Question | Answer | Mark |
|--------------|--|------|
| Number | AO3 – 2 marks | |
| 7 (f) | For example: Weight training will increase strength/muscular endurance (1) which will not provide the explosive action needed /explosive power to jump higher (1) Accept other appropriate responses | |
| | 1 mark for component of fitness improved through weight training 1 mark for reason why this is not applicable to high jump | (2) |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO3 – 1 mark | |
| 8 (a) | 1 mark for correct indication of most likely trend Her mile time will be slower/2 seconds longer/+18 seconds (1) Accept other appropriate responses | |
| | | (1) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO2 – 2 marks; AO3 – 2 marks | |
| 8 (b) | For example: | |
| | Because she runs every mile slower (1) so she needs to increase CV fitness to improve oxygen/nutrient delivery (1) to maintain her pace/reduce fatigue (1) and remove lactic acid | |
| | before it accumulates (1) | |
| | • Her times are slower at each mile (1) and the | |
| | gap between the miles is increasing (1) because | |
| | she cannot maintain the pace she set/because she is becoming fatigued (1) as she is unable to | |
| | provide enough oxygen/nutrients to the working muscles (1) | |
| | Accept other appropriate responses | |
| | 1 mark for getting slower throughout the race (AO2) 1 mark for use of the data to show incremental drop in pace (AO2) 1 mark for evaluating the reason for this (AO3) 1 mark for justifying impact of improving CV fitness | |
| | (AO3) | (4) |

| Question Number | Answer AO2 – 2 marks; AO3 – 1 mark | Mark |
|-----------------------------|---|------|
| Question Number 8 (c) | Answer AO2 - 2 marks; AO3 - 1 mark For example: Continuous training (1), as she will be running for a long time /running without breaks/running for more than 20min/running for an extended period of time (1) therefore the training is specific to her event/replicates her event (1) Fartlek training (1) because this allows her to practice running at different intensities (1) which will be important to her as some parts of the race could be steep/uphill (1) Credit one mark only for training methods that could improve CV fitness, even if not specific to marathon running, e.g. interval training and circuit training Accept other appropriate responses DNA inappropriate training methods (e.g. plyometrics), fitness tests or general fitness sessions. 1 mark for identifying a suitable training method (AO2) | Mark |
| | 1 mark for identifying a suitable training method (AO2) 1 mark for describing characteristic that makes this training method suitable (AO2) 1 mark for justifying the link between the characteristic of the method and the demands of the activity (AO3) | (3) |

| Question | Answer | Mark |
|-----------|---|------|
| Number | AO1 – 1 mark; AO2 – 1 mark | |
| 8 (d) (i) | For example: More oxygen available (1) so work aerobically for | |
| | More oxygen available (1) so work derobleally for longer/remove lactic acid (1) CO₂ removed more quickly (1) (less CO₂) reduces risk of fatigue (1) Increased surface area (1) therefore more oxygen available (1) Increased rate of gas exchange/more efficient gas exchange (1) so quicker removal of CO₂/therefore more oxygen available (1) | |
| | Accept other appropriate responses 1 mark for identifying it will increase rate of gas exchange (AO1) 1 mark for how this helps performer (AO2) | (2) |

| Question | Answer | Mark |
|------------|---|------|
| Number | AO1 – 2 marks | |
| 8 (d) (ii) | 1 mark for each correct training adaptation, to a maximum of 2 marks Increased lung capacity/volume (1) Increased vital capacity (1) Increased strength of diaphragm (1) Increased strength of external intercostal muscles (1) | |
| | Accept other appropriate responses | |
| | DNA Increased tidal volume (as response to exercise) | (2) |

| Question | Answer | Mark |
|----------|--|------|
| Number | AO1 – 1 mark | |
| 9 (a) | For example: To review medical history/heart condition /medication/ any <u>health</u> issues/ (1) To assess personal readiness for training/check it is safe for you to exercise (1) To make recommendations for amendment to training (due to health issues) (1) | |
| | Accept other appropriate responses | |
| | 1 mark for identification of purposes of PARQ | (1) |

| Question | Answer | Mark |
|----------------------------|---|------|
| Number | AO1 – 1 mark; AO3 – 1 mark | |
| Number 9 (b) (i) | AO1 – 1 mark; AO3 – 1 mark For example: To increase elasticity/pliability/temperature of muscles (1) so they are less likely to become injured during the class (1) To increase the mobility at the joints (1) therefore increasing the range of movement possible (1) To increase the range of movement (1) improving technique during the class/reducing risk of injury (1) | |
| | Accept other appropriate responses 1 mark for identifying reason for stretching (AO1) 1 mark for impact of this (AO3) | (2) |

| Question | Answer | Mark |
|------------|---|------|
| Number | AO1 – 1 mark | |
| 9 (b) (ii) | For example: To <u>gradually</u> reduce heart rate (1) (keep heart rate elevated) to help removal of waste products/lactic acid/CO₂ (1) (keep heart rate elevated) to repay oxygen debt (1) | |
| | Accept other appropriate responses | |
| | 1 mark for identification of purpose of cool down | (1) |

| Question | Answer | Mark |
|----------|---|------|
| Number | AO2 – 2 marks | |
| 9 (c) | 1 mark for each correct response to a maximum of 2 marks • No spillages/tripping bazards (1) | |
| | The class know the correct techniques to use /know the safety rules (1) Fitness equipment is safe to use/ machines not broken/machines working (1) Student clothing is suitable/fit for purpose/no jewellery /hair tied back (1) There is enough space for the class to work (1) | |
| | Accept other appropriate responses | (2) |

| Question | Answer | | | Mark |
|----------|---|--|--|------|
| Number | AO2 – 4 marks | | | |
| 10 (a&b) | For example: | | | |
| | Performance- enhancing drug (PED) | (a) Sport or physical activity where effect of PED would be an advantage | (b) Advantage to performer in that sport or physical activity | |
| | Erythropoietin (EPO) | Marathon runner (1) Long distance runner (1) Triathlon (1) Tour de France/ <u>long</u> distance cycling (1) | Increased oxygen delivery (1) Can work <u>aerobically</u> for longer (1) | |
| | Anabolic steroids | Sprinters (1) Weightlifters (1) | Allow performers to train <u>harder for</u> <u>longer</u> (1) <u>Increase muscle</u> <u>mass/hypertrophy/</u> <u>build muscle</u> (1) Greater increase in power/strength (1) Speed up recovery time <u>so</u> train more frequently (1) | |
| | Accept other ap EPO – any dista Anabolic steroic | propriate respons nce event ls – any power eve | es nt | |
| | 1 mark for each (AO2) 1 mark for each that sport/physi | correctly associat example of advar cal activity (AO2) | ed sport with the PED stage to person form | (4) |

| Question | Indicative content Ma | | |
|----------|--|-----|--|
| Number | AO1 – 3 marks; AO2 – 3 marks; AO3 – 3 marks | | |
| 11 | Reward acceptable answers. Responses may include, but are | | |
| | not limited to, the following: | | |
| | Knowledge and understanding of the different muscle fibre | | |
| | types (AQ1) Eactual statements about the fibre types: | | |
| | Characteristic of fast twitch/type llx/type llb fibre | | |
| | Characteristic of type IIa fibre | | |
| | Characteristic of clow twitch (type I fibre | | |
| | Characteristic of slow twitch/type libre | | |
| | Application of knowledge, linking the fibre type to relevant | | |
| | aspect of the game (AO2). NB – single jump – type IIx, however | | |
| | could also be use llx for sprinting (if short sprint): | | |
| | • Type IIx provide the most powerful contraction (AO1) so | | |
| | Dexter will use these fibre types to get the required | | |
| | height for the tipoff/to produce the required force to | | |
| | accelerate away from opponent (AO2) | | |
| | • Type IIa can be used for sustained high | | |
| | intensity/anaerobic work (AO1), so Dexter will use them | | |
| | when sprinting up and down the court (AO2) | | |
| | • Type 1 fibres produce the least amount of force of the | | |
| | fibre types (AO1) so they will be used in low intensity | | |
| | parts of the game when jogging back into position (AO2) | | |
| | | | |
| | Evaluation of topic – making reasoned judgements about | | |
| | the importance of the three different muscle fibre types to | | |
| | the performer (AO3): | | |
| | Type IIX is essential as it provides the height needed to | | |
| | reach the ball first /jump higher to make first contact, | | |
| | without this the opposition would always get possession. | | |
| | Type IIa are important to allow repeated sprints within | | |
| | the game so the player can maintain high intensity runs | | |
| | (AO3) | | |
| | All three fibre types have a role within the game; | | |
| | however, fast twitch fibres allow the player to be | | |
| | quickest to the ball/jump higher, so they are more | | |
| | important than slow twitch fibres. | | |
| | | | |
| | able to gain marks beyond Level 1 | (9) | |
| | | | |

| Level | Mark | Descriptor | |
|-------|------|---|--|
| | 0 | No rewardable material | |
| 1 | 1-3 | Demonstrates isolated elements of knowledge and understanding, with limited technical language used (AO1). Limited attempt to apply knowledge to question context (AO2). Generic assertions may be presented (AO3 - evaluation). | |
| 2 | 4-6 | Demonstrates mostly accurate knowledge and understanding, including appropriate use of technical language in places (AO1). Applied knowledge to question context (AO2). Attempts at drawing conclusion, with some support from relevant evidence (AO3 – evaluation). | |
| 3 | 7-9 | Demonstrates accurate knowledge and understanding throughout, including appropriate use of technical language (AO1). Applied detailed knowledge to question context throughout (AO2). Reaches a valid and well-reasoned conclusion supported by relevant evidence (AO3 – evaluation). | |

| Question | Indicative content | Mark |
|----------|---|------|
| Number | AO1 – 3 marks; AO2 – 3 marks; AO3 – 3 marks | |
| 12 | Reward acceptable answers. Responses may include, but are not | |
| | innited to, the following. | |
| | Knowledge and understanding of the different components of | |
| | fitness (AO1). Factual statements about the components of fitness: | |
| | Identification of relevant components of fitness | |
| | Definitions of the relevant components of fitness | |
| | NB power, strength and flexibility are in this question | |
| | Application of knowledge, linking the component of fitness to hurdling (AO2): | |
| | • Reaction time (AO1) as he will need to respond to the | |
| | stimulus of the starter's gun quickly (AO2) | |
| | • Speed (AO1) so he can run quickly between the hurdles (AO2) | |
| | • Coordination (AO1), so that he can move his upper body into | |
| | the correct position whilst jumping the hurdles (AO2) | |
| | • Body composition (AO1) as they will need the correct ratio of | |
| | fat to fat | |
| | free mass, so they are not carrying unnecessary 'fat' weight | |
| | (AO2) | |
| | • Balance (AO1) so that he can maintain good form while | |
| | running/doesn't fall (AO2) | |
| | Evaluation of topic – making reasoned judgements about the | |
| | (AO3). | |
| | Reaction time (AO1) as he will need to respond to the | |
| | starter's gun quickly (AO2) the quicker he responds/moves the | |
| | more likely he is to get ahead of the opposition (AO3) | |
| | • Speed (AO1) so he can run quickly between the hurdles (AO2) | |
| | and get a faster time (AO3) | |
| | • Coordination (AO1), so that he can move his upper body into | |
| | the correct position whilst jumping the hurdles (AO2) Good | |
| | foot-eye coordination approaching the hurdle, so he jumps at | |
| | the right time to clear the hurdle (AO3) (accept other examples | |
| | of upper body coordinating with lower body to achieve desired | |
| | shape over the hurdle) | |
| | • Body composition (AO1) as they will need the correct ratio of | |
| | fat to fat free mass, so they are not carrying unnecessary 'fat' | |
| | weight (AO2) the more muscle he has the more force he can | |
| | generate to complete his race faster (AO3) (also allow | |
| | | |

| reference to low fat so less unnecessary body weight to carry | |
|---|---|
| slowing him down) | |
| • Balance (AO1) so that he can maintain good form/doesn't fall | |
| while running (AO2). Good dynamic balance as he takes off or | |
| lands means he doesn't lose time (AO3) | |
| | |
| tudents who only show achievement against AO1 will not be able to | |
| ain marks beyond Level 1. | (9) |
| | (-) |
| t | reference to low fat so less unnecessary body weight to carry slowing him down) Balance (AO1) so that he can maintain good form/doesn't fall while running (AO2). Good dynamic balance as he takes off or lands means he doesn't lose time (AO3) udents who only show achievement against AO1 will not be able to in marks beyond Level 1. |

| Level | Mark | Descriptor | |
|-------|------|---|--|
| | 0 | No rewardable material | |
| 1 | 1-3 | Demonstrates isolated elements of knowledge and understanding, with limited technical language used (AO1). Limited attempt to apply knowledge to question context (AO2). Generic assertions may be presented (AO3 - evaluation). | |
| 2 | 4-6 | Demonstrates mostly accurate knowledge and understanding, including appropriate use of technical language in places (AO1). Applied knowledge to question context (AO2). Attempts at drawing conclusion, with some support from relevant evidence (AO3 – evaluation). | |
| 3 | 7-9 | Demonstrates accurate knowledge and understanding throughout, including appropriate use of technical language (AO1). Applied detailed knowledge to question context throughout (AO2). Reaches a valid and well-reasoned conclusion supported by relevant evidence (AO3 – evaluation). | |