GCSE Physical Education - Fitness Testing

Muscular Strength

Test: Hand Grip Dynamometer Test

Protocol: Grip the dynamometer in one hand. Start with your

hand up and bring down to side while pulling in handle. No swinging your hand.

Advantages	Disadvantages
•Simple and easy to complete	Only one size of dynamometer which may affect reading.Focuses solely on forearm strength.

Agility

Test: Illinois Agility Test

Protocol: Start lying down at the start line. Complete course as quick as possible (10m x 5m – 4 central cones)





Advantages	Disadvantages
•Simple and easy to complete	Motivation dependant / Timing errors.

Muscular Endurance

Test: sit up test (metronome)



Test: Maximal press up test

Protocol: Complete full sit ups in time to **Protocol:** complete as many press-ups as possible resting in the "up" position to the beat on the recording

Advantages	Disadvantages
Simple test to complete Minimal equipment needed.	 Difficult to assess whether each repetition is performed correctly. Difficult to accurately measure large groups.

Speed

Test: 30m Sprint Test

Protocol: Start from stationery position. Complete distance in the guickest possible time. Time is stopped when chest crosses the line.



Advantages	Disadvantages
 Quick test to complete. Minimal equipment needed and can be performed anywhere with a flat 50m run. 	 Running surfaces/weather conditions can affect the results. Inaccuracies with stopwatch usage.

Flexibility

Test: Sit and Reach Test

Protocol: Sit with legs straight out in front and soles of feet against box/table. Reach forward without bending knees. No jerking movements.



Distance recorded.

Advantages	Disadvantages
Quick and easy to perform.Data table readily available for comparison	 Can cause injury if not fully warmed up appropriately. Only measures flexibility of lower back and hamstrings.

Power

Test: Vertical jump Test

Protocol: Stand next to wall and mark an initial reach while feet are flat on the ground. Standing jump to reach as high as possible. Measure distance from first mark to second.



Advantages	Disadvantages
 Quick and easy to perform. Easy to complete with large groups.	Technique plays are large role in successful completion.

Cardiovascular Fitness (Aerobic Endurance)

Test: 12 min Cooper Run **Protocol:** Continuously run/swim

for 12 minutes.

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Disadvantages Advantages

equipment Inaccuracy of heart rate measurements

oe self Motivation administered.



Reliability /Validity

Validity relates to whether the test actually measures what it sets out to measure.



Reliability is a question of whether the test is accurate. It is important to ensure that the procedure is correctly maintained for ALL individuals.

Test: Multi-Stage Fitness Test

Protocol: Shuttle run continuously for 20 metres. Record the level and point that you cannot continue at that pace for.

Advantages	Disadvantages
• Simple test to complete	Motivation dependant

Results can be improved:

- By using experienced testers & calibrating equipment
- Ensuring performers have the same level of motivation to complete each test
- Repeatedly test to avoid human error (x3)

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Term	Definition/notes/concept
Keywords:	

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