



Component of	Fitness test		Advantages	Disadvantages
Fitness				
	Body Mass Index (BMI) BMI= Weight (kg) Height (m) x Height (m)		Easy to carry out	<ul> <li>Results can be misleading as muscles weighs more than fat</li> </ul>
Body Composition	Bioelectrical Impedance Analysis (BIA) BIA = electricity passed through body from WRIST to ANKLE. Measures the resistance from muscle and fat		<ul> <li>Quick and gives instant results</li> <li>Can be repeated</li> </ul>	Needs expensive     equipment
	Sum of Skinfolds Use CALLIPERS to measure skin on the BICEP, TRICEP, SHOULDER BLADE and HIP. Add measurements together and use to the JACKSON-POLLOCK nomogram (4 lines)		<ul> <li>Provides accurate percentages of body fat</li> </ul>	<ul> <li>Needs specialist equipment</li> <li>Problems with people revealing bare skin</li> </ul>
Aerobic	Multi Stage Fitness Test (MST/Bleep test) Cones/Lines 20m apart, run in- between to the sound of a beep. Gradually gets faster. Longer you can keep up the higher the level		<ul> <li>Can test a large group at once</li> <li>Tests to maximum effort</li> </ul>	<ul> <li>Practice can affect score</li> <li>If outside environment may affect</li> <li>Scores can be subjective</li> </ul>
Endurance	Forestry Step Test Step/ bench- 33cm for females and 40cm for males. Step up and down for 5 minutes to a metronome. (90bpm/22.5steps a min). Record pulse and compare to table	C typendiports com	<ul> <li>Low cost</li> <li>Can be performed inside or outside</li> <li>Can test on your own</li> </ul>	<ul> <li>People may struggle to keep with the stepping pace on metronome</li> </ul>
Speed	<b>35m sprint test</b> Sprint from one line/cone to another in a straight line over 35m. Record time and compare to normative data		No equipment needed	<ul> <li>Human error when timing can affect results</li> </ul>
Strength	Grip dynamometer 3 attempts, squeeze grip dynamometer measure result in Kg or KgW.		<ul> <li>Simple and easy test</li> <li>Lots of normative data</li> </ul>	<ul> <li>Must be adjusted for hand size which may affect results</li> </ul>
Flexibility	Sit and Reach test Both feet against the sit and reach box, reach forward and measure result in centimetres		<ul> <li>Well known test</li> <li>Quick and easy to perform</li> </ul>	<ul> <li>measures lower back &amp; hamstrings only</li> <li>length of arms and legs affect results</li> </ul>
Muscular Endurance	Sit up and press up tests Count how many sit ups or press-ups completed in 1 minute		<ul><li>Quick and easy</li><li>Little equipment</li><li>Large groups at once</li></ul>	Arguments of correct technique can affect results
Agility	Illinois Agility test Cones set up as in the image, lie face down on the floor at the start, measure time to complete course in seconds		Cheap and easy to conduct	<ul> <li>Human error with timing can affect results</li> <li>Weather or surface conditions can affect results</li> </ul>
Power	Vertical Jump test Stand side on to wall reach up and mark/set the measure. Standing jump as high as possible touching wall. Measure between two marks/measures	A	Quick and easy	<ul> <li>Technique can affect result as need to jump and mark the wall</li> </ul>