

<p align="center">Skill related fitness</p> <p>Agility: -Illinois agility run test -T Test.</p> <p>Balance: -Stork stand test -Y balance test.</p> <p>Coordination: -Alternate-Hand Wall-Toss test -Stick flip coordination test.</p> <p>Power: -Vertical jump test -Standing long/broad jump -Margaria-Kalamen power test.</p> <p>Reaction time: -Ruler drop test -Online reaction time test (reaction test timer)</p>	<p align="center">Physical related fitness</p> <p>Aerobic endurance: -Multi-stage fitness test (Bleep test 20 metre distance) -Yo-Yo test -Harvard step test -12-minute Cooper run or swim.</p> <p>Muscular endurance: -One-minute press-up -One-minute sit-up -Timed plank test.</p> <p>Flexibility: -Sit and reach test -Calf muscle flexibility test -Shoulder flexibility test.</p> <p>Speed: -30 metre sprint test -30 metre flying sprint.</p> <p>Muscular strength: -Grip dynamometer -1 Rep Max.</p>	<p align="center">Fitness testing considerations</p> <p>Reliability: -Whether the results can be replicated/trusted</p> <p>Validity: -Whether the test measures the correct component of fitness.</p> <p>Factors affecting reliability: -Calibration of equipment -Motivation of the participant -Conditions of the testing environment -Experience of the person administering the test -Compliance with standardised test procedure.</p> <p>Practicality: -cost -Time taken to perform & set up the test -Time taken to analyse data -Number of participants that can take part in the test at any time.</p>	<p align="center">Methods of training - Physical related fitness</p> <p>Aerobic endurance: -Continuous training -Fartlek training -Interval training -Circuit training</p> <p>Flexibility: -Static active -Static passive -Proprioceptive Neuromuscular Facilitation (PNF) technique</p> <p>Muscular Strength: -Free weights -Fixed resistance machines</p> <p>Speed: -Acceleration sprints -Interval training -Resistance drills</p>
<p align="center">The effects of long-term fitness training on the body systems</p> <p>Aerobic endurance training: -Adaptations to the cardiovascular and respiratory systems -Cardiac hypertrophy Decreased resting heart rate -Increased strength of respiratory muscles -Capillarisation around alveoli.</p> <p>Flexibility training: -Adaptations to the muscular and skeletal systems -Increased range of movement permitted at a joint -Increased flexibility of ligament and tendons -Increased muscle length.</p> <p>Muscular endurance training: -Adaptations to the muscular system -Capillarisation around muscle tissues -Increased muscle tone</p>	<p align="center">The effects of long-term fitness training on the body systems</p> <p>Muscular strength and power training: -Adaptations to the muscular and skeletal systems -Muscle hypertrophy -increased tendon and ligament strength -Increased bone density.</p> <p>Speed training: -Adaptations to the muscular system -Increased tolerance to lactic acid.</p>	<p align="center">Methods of training - Skill related fitness</p> <p>Agility: -Speed Agility and Quickness training (SAQ) – drills</p> <p>Power: -Plyometrics (lunging, bounding),</p> <p>Balance: -Use of specific training exercises that require balancing on a reduced size base of support.</p> <p>Coordination: -Use of specific training exercises using two or more body parts together.</p> <p>Reaction time: -Use of specific training</p>	<p>Muscular Endurance: -Free weights resistance machines -Circuit training</p> <p align="center">Principles of training (In SPOR VARR)</p> <p>Additional principles of training -Individual needs -Specificity -Progressive Overload -Reversibility</p> <p>-Variation -Adaptation -Rest & Recovery</p> <p>Basic principles of training -Frequency -Intensity -Time -Type</p>
<p align="center">Training intensity</p> <p>-Maximum heart rate 220 -Age -Aerobic training zone 60-85% MHR -Anaerobic training zone 85%-MHR</p> <p>Rate of perceived exertion RPE to HR = x10 HR to RPE = Divide by 10</p>			