

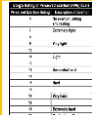


KG 1		Physical Components of fitness			
		Acronym: F S B A M M			
		Component	Definition		
1.		Flexibility	Having an adequate range of motion in all joints of the body; the ability to move a joint fluidly through its complete range of movement.		
2.		Speed	Distance divided by the time taken. Speed is measured in metres per second (m/s).		
			3 types of speed	Accelerative	Sprints up to 30 m
				Pure	Sprints up to 60 m
Endurance	Sprints with a short recovery in-between				
3.		Body composition	The relative ratio of fat mass to fat-free mass (vital organs, muscle, bone) in the body.		
4.		Aerobic endurance	The ability of the cardiorespiratory system to work efficiently, supplying nutrients and oxygen to working muscles during sustained physical activity		
			Components of the Cardiorespiratory System	1. Heart 2. Blood 3. Blood vessels 4. Lungs 5. Airways	
			Functions of the Cardiorespiratory System	1. Breathe in oxygen from the air 2. Transport oxygen and nutrients 3. Remove waste products	
5.		Muscular endurance	The ability of the muscular system to work efficiently, where a muscle can continue contracting over a period of time against a light to moderate fixed resistance load.		
6.		Muscular strength	The maximum force (in kg or N) that can be generated by a muscle or muscle group.		

KG 2		Skill Related Components of fitness		
		Acronym: B C R A P		
		Component	Definition	
7.		Balance	The ability to maintain centre of mass over a base of support	
			Static balance	Athlete remains still
			Dynamic balance	Athlete is moving
8.		Coordination	The smooth flow of movement needed to perform a motor task efficiently and accurately.	
9.		Reaction time	The time taken for a sports performer to respond to a stimulus and the initiation of their response.	
10.		Agility	The ability of a sports performer to quickly and precisely move or change direction without losing balance or time	
11.		Power	The product of strength and speed	

KG 3





Exercise Intensity

		Measure of Intensity	Description
12.		HR Max (Maximum heart rate)	HR Max = 220-age Measured in bpm (beats per minute)
13.		Aerobic Training zone	60%-85% of HR Max
14.		Borg Rating of Perceived Exertion (RPE) Scale	Scale is from 6-20 Used as an estimate of intensity RPE x 10 = estimated heart-rate

KG 4

Principles of Training








Acronym: F I T T

		Principle	Description
15.		Frequency	How often you train
16.		Intensity	How hard you train
17.		Time	How long you train for
18.		Type	How you train (method of training)

KG 5

Additional Principles of Training

Acronym: V I P R A R S

		Principle	Description
19.		Variation	It is important to vary the training regime to avoid boredom and maintain enjoyment
20.		Individual needs	The programme should be designed to meet individual training goals and needs.
21.		Progressive overload	In order to progress, training needs to be demanding enough to cause the body to adapt, improving performance.
22.		Rest & recovery	Rest and recovery are required so that the body can recover from the training and to allow adaptation to occur
23.		Adaptations	How the body reacts to training loads by increasing its ability to cope with those loads. This occurs during recovery after a training session.
24.		Reversibility	If training stops, or the intensity of training is not sufficient to cause adaptation, training effects are reversed.
25.		Specificity	Training should be specific to the individual's sport, activity or physical/skill-related fitness goals to be developed.