Component 1 Principles of Training		Component 1 Types of Training						
Principles of trai	ning: F I R S T O P		Types of Training					
Principle	Explanation	Application	Continuous Training	Fartlek Training	Circuit Training	Interval Training	Plyometric Training	Weight Training
F.I.T.T	F = Frequency (how often) I = Intensity (how hard) T = Time (how long) T = Type of training	I train 3 times per week 3 sets of 8 reps of 15kg I train for 60 minutes I use circuit training	ls aerobic Has no breaks or rest (20 min or more)	Form of continuous training Varies in pace and	Contains stations organised in a circuit they can be skill or	High intense exercise followed by periods of rest to recover	High Intensity Short duration Breaks between sets	Form of interval training Involves reps and sets
Individual Needs	Everybody is different and has different needs. It is important to match training to the requirements of the individual	Ronaldo is a professional footballer he trains 5 days per week. John plays Sunday league football and trains once per week	Sub-maximal exercise Improves cardiovascular & muscular endurance	terrain Aerobic & Anaerobic Improves cardiovascular & muscular endurance	fitness based, aerobic or anaerobic Intensity is measure by circuits, time or repetitions	Usually anaerobic can be used in a variety of locations Improves speed but can improve strength and cardiovascular	(exercises) Involves jumping/bounding Improves power (speed & strength)	Weight provides the resistance Improves strength, power and muscular endurance
Reversibility	Just as football improves with training, it can decline if you	Reversibility can be caused by lack of training	Advantages	Advantages	Advantages Variety of stations	Advantages Can be used to improve	Advantages	Advantages Can target specific
Specificity f Specificity f Thresholds of Training	stop training raining must match the requirements of the activity so that the right muscles and body systems are adapted To improve fitness, you should train within your target zone. Your target zone will depend on the intensity of the activity Aerobic = 60 – 80% max HR Anaerobic = 80 – 90% max HR	or injury A sprinter should train for speed A rower should train using a rowing machine not a treadmill Running a 10k is an aerobic activity. You should therefore train in the aerobic training zone of 60 – 80% of the max heart rate	facilities Has many health benefits (CHD)	facilities Change of pace can be more interesting	generates interest Can be skill or fitness Can easily be adapted	health and fitness (aerobic & anaerobic) No equipment needed	Develops power quickly No equipment	areas of the body Easily adapted for different fitness'
			Disadvantages	Disadvantages	Disadvantages	Disadvantages	Disadvantages	Disadvantages
			Boring No change of pace Can cause impact injuries	High intensity can be avoided A safe route may be hard to find	Equipment can be costly Can be time consuming to set up	Can be repetitive and boring Need to plan and keep track of sets	Can cause injury due to high intensity	Can cause injury with poor technique A spotter needed with free weights
			Sports	Sports	Sports	Sports	Sports	Sports
			Marathon running cycling Swimming	Fotball Rugby Netball	Can be adapted to suit all sports	Usually for speed It can be adapted to other	Basketball Long jump Hurdles	Weight lifting, rugby shot-put
Overtraining	Too much training can lead to injury and prevent improvement. Rest, duration of a session and the intensity are all important when training	Training everyday does not allow enough time for rest for recovery and adaptations				sports		
Progressive Overload	Progressive overload is gradually increasing the amount of training so that fitness gains occur, but without the risk pf injury	Week 1 = run for 10 mins Week 2 run for 15 mins						
			Aerobics	Body Pump	Pilates	Yoga Spinni	ng	
Thresholds of trai Aerobic training zone = Anaerobic training zone The Karvonen for Maximum Heart rate =	= 60 – 80% of max HR ∋ = 80 – 90% of max HR mula	4 220 200						
Worked example John is 16 years old His maximum heart rate = 204 bpm Aerobic training zone = $60 - 80 \%$ $60\% = 60 \times 204 \div 100 = 122$ bpm $80\% = 80 \times 204 \div 100 = 163$ bpm			 Involves continuous between 30 – 60 n includes step and a aerobics Improves Cardiovas fitness 	ninutes, intensity, lo qua uses barbel • Improves st	ts of reps & uses res Ils focuses rength & Improve	istance and on core strength es flexibility, Imp	athing relaxation & n athing techniques • In roves flexibility, e	Continuous cycling to nusic nproves muscular ndurance & ardiovascular fitness