Year 7 Health Related Fitness (HRF)

Physical Components of Fitness		Warm Up & Cool Down		
Aerobic Endurance	The heart and lungs working for a long period of time to supply oxygen to working muscles during physical activity.	Warm Up	 Light continuous physical activity to prepare the body for exercise Dynamic stretches (stretches whilst moving). Pulse raising activities, e.g. gentle jogging, knees up, side steps etc. 	
Muscular Endurance	The muscles working for a long period of time against a fixed resistance.	0.10	Sport specific activities, e.g. passing for football/netball/basketball.	
Muscular Strength	The maximum force that can be generated by a muscle.	Cool Down	 Cool Down Light, continuous physical activity to reduce heart rate and remove lactic acid from the muscles. Static stretches (stretches whilst stationary). Pulse reducing activities, e.g. gentle jogging to steady breathing. 	
Speed	Distance divided by the time taken, measured in metres per second (m/s). The faster an athlete runs over a distance, the greater their speed.	Heart Rate – Test Sites		
Flexibility	The ability to move a joint fully and smoothly through its complete range of movement.			
Body Composition	The ratio of fat mass to fat-free mass (vital organs, muscle, bone) in the body.			
Skill Components of Fitness		NR STATISTICS		
Agility	The ability of a sports performer to change direction at speed without losing balance or time.	C a	rotid	Radial
Balance	The ability to maintain centre of mass over a base of support, which can be dynamic (on the move) or static (stationary).	Heart Rate (measured in beats per minute 'bpm')		
		During exercise your working muscles require oxygen therefore your heart rate increases so		
Co-ordination	The ability to use two parts of the body to perform a task	that the oxygen within the blood can be supplied to the muscles.		
	smoothly and accurately, e.g. hand-eye co-ordination.	Heart Rate Maximum (bpm) = 220 – age (years).		
Power	An action that is a product of speed and strength, so it is fast and strong.	To estimate your heart rate you can use the 'Borg Scale' which is a rating from 6-20 (with 6 being low and 20 being high). You use this to estimate how hard you are working multiply it by 10 and that is an estimate of your heart rate.		
Reaction Time	The time taken for a sports performer to respond to a something occurring, e.g. starting gun in the 100m and the athlete sprinting.			
		When exercising it is recommended that an individuals heart rate is between 60–85% of their maximum heart rate to improve cardiovascular health and fitness.		