

GLOSSARY OF TERMS

Abduction	Movement away from the midline of the body.
Adduction	Movement towards the midline of the body.
Aerobic exercise	Use of oxygen for the duration of the exercise. Usually at moderate intensity at a continuous rate e.g. long distance running.
Agility	The ability to change direction at <i>speed</i> ; nimbleness.
Agonist	The muscle that works to create the movement.
Antagonist	The muscle that works in the opposite way of the <i>agonist</i> .
Antagonistic muscle action	A pair of muscles that work together to produce movement with one muscle contracting whilst the other muscle relaxes. E.g. the upper arm, as the arm flexes the bicep contracts and the triceps relaxes.
Anaerobic exercise	Exercise which does not allow for the predominant usage of oxygen. Usually high or very high intensity for a short period of time. E.g. sprinting up a hill.
Articulating bones	Bones that move relative to each other at a joint.
Axes of rotation	A line around which the body can turn.
Balance	The ability to stay upright or stay in control of body movement.
Balanced diet	A diet that contains the correct proportions of carbohydrates, fats, proteins, vitamins, minerals, and water necessary to maintain good health.
Beta Blockers	A drug used to control heart rhythm and lower blood pressure.
Blood vessels	Tubular structures that carry blood around our bodies.
Breathing rate	The number of breaths taken in a minute.
Capillarisation	The development of blood capillaries in the body which increases through long term effects of exercise.

Cartilage	A tough, elastic, fibrous connective tissue.
Cardiac output	The volume of blood pumped per minute by each ventricle of the heart. Cardiac output = <i>stroke volume x heart rate</i> .
Cardiovascular endurance	The ability to continue exertion while getting energy from the aerobic system used to supply the body with energy. Also referred to as <i>stamina</i> .
Circuit training	Series of alternate exercises performed at stations that focus on different muscle groups.
Circumduction	The circular movement of a joint. It is a movement pattern that combines <i>flexion, extension, adduction, abduction</i> and <i>rotation</i> .
Closed skill	Skills that are performed in a predictable environment. E.g. a Player taking a line out in Rugby.
Commercialisation	Links business and commerce into sport with a primary focus of profit which can lead to exploitation.
Complex skill	A skill which requires a lot of focus and decision making to perform.
Confidence	The degree to which a performer believes they have the ability to perform and complete tasks with success.
Continuous training	Training that involves activity without rest intervals. It can be performed at any intensity.
Co-ordination	The ability to move two or more body parts under control, smoothly and efficiently.
Cool down	The act of allowing physiological activity to return to normal gradually after strenuous exercise by engaging in less strenuous exercise. Aims to slowly decrease breathing, heart rate and muscle temperature.
Coronary Heart Disease (CHD)	Where the blood vessels are narrowed and blood flow and oxygen to the heart is reduced.
Discrimination	The unfair treatment of individuals whereby opportunities are not available to all of the different social groups.
Deviance	Behaviour that is either immoral or seriously breaks the rules and norms of the sport.
Double circulatory system	The human body has two circulatory loops in which blood circulates. One is oxygenated, and the other is deoxygenated. Systemic – the circulatory loop that controls blood flow from the heart to the rest of the working muscles and organs. Pulmonary - the circulatory loop that controls blood flow from the heart to the lungs.

Energy balance	Energy input = energy expenditure. This equation must balance for your body weight to remain constant.
Ethnicity	A state of belonging to a specific social group with common cultural or national traditions or beliefs.
Exercise	Activity that requires physical effort. Usually carried out to sustain or bring about improvements to health or fitness.
Extension	A straightening movement around a joint.
Fartlek training	Training which varies in intensity and duration and consists of bursts of intense effort alternating with less strenuous activity.
Fatigue	Muscle tiredness when the body has a lack of energy.
Feedback	Information that is given to a performer either during or after their performance with the aim of improving future performances.
Fixator	A muscle which acts as the stabilizer and helps the agonist work effectively of one part of the body during movement of another part.
FIIT	FITT outlines the key components of an effective exercise program: Frequency – the number of times exercise takes place Intensity – how hard and intense the exercise is Time – how long you exercise for Type - the kind of exercise that takes place.
Fitness	Your ability to meet the physical demands placed on you by the environment.
Flexibility	Range of movement available around a joint.
Flexion	A bending movement around a joint in a limb.
Frontal axis of rotation	Runs horizontally from the front to back of your body. A gymnast performing a cartwheel moves through this axis.
Frontal plane	An imaginary line which divides the body from front to back vertically.
Gamesmanship	Where the laws of the game are interpreted in ways, which whilst not illegal, are not in the spirit of the game. Pushing the limits to gain unfair advantage.
Gas exchange	The movement of gases taking place at the alveoli and capillaries.
Gender	The state of being male or female.
Golden triangle	The links and relationship between sponsorship, sporting events and the media.
Guidance	Given to aid the learning of a skill. Visual: use of demonstrations that allow the performer to 'see' the skill Verbal: the coach will explain the technique Manual: the coach will physically manipulate the athlete through the skill Mechanical: use of apparatus or aids that assist the performer.

Health	The state of emotional, physical and social well-being.
Heart rate	Number of heart beats per minute.
HIIT	Exercise that alternates between high intensity and periods of recovery.
Hydration	Having the appropriate level of water in the body for it to function optimally. When this level of water falls below optimal levels it is referred to as dehydration.
Hypertrophy	The increase in size of skeletal or cardiac muscle, often as a result of training or exercise.
Interval training	Training that incorporates periods of exercise and rest.
Lactic acid	A waste product produced in the muscle tissues during strenuous exercise where the <i>anaerobic</i> energy system is in use.
Levers	1st Class: A lever in which the fulcrum is positioned between the load and the effort. 2nd Class: A class 2 lever has the load and the effort on the same side of the fulcrum, with the load nearer the fulcrum. 3rd Class: The effort is placed between the load and the fulcrum, and the effort must travel a shorter distance and be greater than the load.
Ligament	A short band of tough and flexible tissue connecting bones together and stabilise the <i>joint</i> .
Longitudinal axis of rotation	Passes vertically from the top to the bottom of your body. A 360 degree turn rotates through this axis.
Mechanical advantage	1st and 2nd class levers provide mechanical advantage, this means that a larger load can be moved with a smaller amount of effort.
Media	Different forms of communication that can inform, educate and entertain people including social, internet, TV and newspapers.
Mental preparation	The rehearsal of a physical skill that takes place within the mind of the performer without any actual physical movement.
Minute ventilation	The volume of gas inhaled or exhaled from the lungs per minute.
Muscular endurance	The ability to move your body and muscles repeatedly without <i>fatiguing</i> .
Obesity	The state of being very overweight, with a lot of excess body fat, usually classified using the BMI calculation of 30 or above.

Open skill	These are affected by the environment and are predominantly perceptual as they must be adapted to suit the environment. These skills are usually externally paced. E.g. a pass within a game situation in football.
Overload	A greater than normal stress that is applied on the body for training adaptations to take place.
Physical activity	Movement of the body by the skeletal muscles that requires energy expenditure.
Plyometrics	Involves jumping, bounding, hopping exercise.
Power	The ability to exert a maximal force in as short a time as possible.
Progression	Gradual increases in exercise in order for the body to adapt through <i>overload</i> .
Rate of recovery	The speed at which the body returns back to normal after exercise.
Reaction time	The ability to respond quickly to a stimulus.
Red blood cells	Oxygen carrying cells containing haemoglobin.
Redistribution of blood flow	When you exercise the blood is diverted from inactive areas to the muscles that are being used. This action is completed through vasodilation and vasoconstriction Also known as the vascular shunt mechanism.
Reversibility	Any adaptation that takes place as a result of training will be lost if you stop training.
Role models	Someone to be looked up to, (good role model) an example to follow.
Rotation	The turning of a body part about its long axis as if on a pivot.
Sagittal plane	An imaginary line which divides the body vertically into left and right sides.
Self-esteem	A description and evaluation of a persons self worth, so how much you appreciate and believe in yourself.
Simple skill	Consists of basic movement actions that are not difficult to perform with few decisions to make. E.g. A chest pass, a straight up and down jump.
Skilful movement	A fluent and coordinated movement which is efficient, technically accurate and aesthetically pleasing.
Skills continua	A method of categorising skills along a continuum that acknowledged that whilst they are all different they can all be classified according to their level of difficulty.
Specificity	The training must be matched to the needs of the sporting activity and individual.
SMART	Specific - A target to achieve Measurable - something quantitative you can use Achievable - something that can be done by the performer Recorded - a training programme record Timed - to be achieved in a certain amount of time.

Speed	The ability to move quickly across the ground or move limbs rapidly through movements.
Sponsorship	The giving of money or goods to performers in order to get good publicity and/or increase profit.
Sportsmanship	Ethical, appropriate, polite and fair behaviour while participating in a game or athletic event; fair play.
Stamina	See <i>cardiovascular endurance</i> .
Steroids	Anabolic steroids are synthetic hormones that enhance physical performance.
Stimulants	Drugs used to raise physiological arousal in the body.
Strength	The maximum force a muscle/group of muscles can apply against a resistance.
Stroke volume	The amount of blood pumped out of the heart (left ventricle - to the body) during each contraction.
Synovial joint	An area where two or more bones meet within a joint capsule and allows a wide range of movement to occur.
Synovial joint	An area where two or more bones meet within a joint capsule and allows a wide range of movement to occur.
Tendon	A tendon is a tough yet flexible band of fibrous tissue which joins muscle to bone. Pliability?
Tidal volume	The amount of air which enters the lungs during normal inhalation at rest.
Transverse axis of rotation	Passes horizontally from left to right. A somersault passes through this plane.
Transverse plane	Divides the body into top and bottom.
Type 2 diabetes	A metabolic disorder that affects how your body handles glucose. Often associated with obesity and can be controlled through changes to your diet.
Violence	Physical acts committed in sport that go beyond the accepted rules of play or the expected levels of contact within a contact sport.
Warm up	Preparatory exercises to prepare the body and mind for physical activity. Aims to increase breathing heart rate and muscle temperature.
Weight training	A method of training that uses free weights or resistance machines used to develop strength.

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