



Inherited, stable traits that determine an individual's potential to learn or acquire a skill.





ADAPIABLITY

The potential to change with ease.





ADREMALINE

Natural hormone released to speed heart rate up.



Oxford Cambridge

With oxygen. When exercise is not too fast and is steady, the heart can supply all the oxygen that the working muscles need.

Summarised as: glucose + oxygen → energy + carbon dioxide + water.



The aerobic training zone allows the aerobic system to be trained. To define aerobic training zone:

- 1. Calculate maximum heart rate (220 bpm) minus age: 220-age
- 2. Work at 60-80% of maximum heart rate.





AGRESSION

A deliberate intent to harm or injure another person, which can be physical or mental (see direct and indirect aggression).





The ability to move and change direction quickly (at speed) whilst maintaining control.





AGONSI

Muscle or group responsible for the movement.





A geographical area (of land) which is over 2,000 m above sea level.

AQAP Oxford Cambridge and RSA ALTICLE RAIN CENTRAL CEN

Training at altitude where there is less oxygen. The body adapts by making more red blood cells to carry oxygen. The additional oxygen carrying red blood cells is an advantage for endurance athletes returning to sea level to compete.



Nausea caused by training at altitude.





ALVEOLI

Air sacs in the lungs.







This term defines someone who:

- takes part in an activity as a hobby, rather than for financial gain
- has another main job outside of sport
- takes part for fun
- could be at a lower level.





ANABUCSTERUS

Artificially produced male hormones mimicking testosterone. They promote muscle and bone growth, and reduce recovery time. Often used by power athletes, eg sprinters.





ANAROBC

Without oxygen. When exercise duration is short and at high intensity, the heart and lungs cannot supply blood and oxygen to muscles as fast as the respiring cells need them.

Summarised as: glucose → energy + lactic acid.





ANTAGNST

Acts to produce the opposite action to the agonist. They work in antagonistic pairs.





AROUSAL

A physical and mental (physiological and psychological) state of alertness/readiness, varying from deep sleep to intense excitement/alertness.





ARICLATINGENES

Where two or more bones meet to allow movement at a joint.







Imaginary line through the body around which it rotates. Types of axis:

- longitudinal (or vertical) head to toe
- transverse through the hips
- sagittal through the belly button.





BACKELOW

The flowing backwards of blood. Valves in the veins prevent this from happening.





BALANE

The maintenance of the centre of mass over the base of support. Reference can be made to whilst static (still) or dynamic (whilst moving).



BALANCEDET



It is defined as eating:

- the right amount (for energy expended)
- the right amount of calories
- according to how much you exercise
- different food types to provide suitable nutrients, vitamins and minerals.





BETABLOCKERS

Drugs that are used to steady nerves by controlling heart rate. They have a calming and relaxing effect.





BLOODBING

Defined by World Anti-Doping Agency (WADA) as the misuse of techniques and/or substances to increase one's red blood cell count.





BLOODPRESSIRE

The pressure that blood is under. Types of pressure:

- systolic when the heart is contracting
- diastolic when the heart is relaxed.





BOYCOMPOSITION

The percentage of body weight which is fat and non-fat (muscle and bone).





CALORE

A unit which measures heat or energy production in the body, normally expressed as Kcal.





CARBOHADRATE

The body's preferred energy source.





CARDACCYCLE

The process of the heart going through the stages of systole and diastole (see Blood pressure) in the atria and ventricles (see Heart chambers).





CARDACOUPUT

The amount of blood ejected from the heart in one minute or stroke volume x heart rate.





CARDAC-VASCLAR ENDRANE

The ability of the heart and lungs to supply oxygen to the working muscles.





CRCUTRAING

A series of exercise stations whereby periods of work are interspersed with periods of rest.





CLOSEDSEASON

Post (transition). It is defined as:

- period of rest to recuperate
- players doing gentle aerobic exercise to maintain general fitness
- fully rested and ready for pre-season training.





CLOSEDSKILL

A skill which is not affected by the environment or performers within it. The skill tends to be done the same way each time.



COMERCIALISM



To manage or exploit (an organisation, activity, etc) in a way designed to make a profit.

The specification refers to commercialised activity as being sponsorship and the media only.





CORDINATION

The ability to use different (two or more) parts of the body together, smoothly and efficiently.



It is defined as:

- playing season
- taking part in matches every week
- maintenance of fitness related to the activity but not too much training as it may cause fatigue, which would decrease performance
- concentration on skills/set plays to improve team performance.





CONNUCESTRAING

Involves working for a sustained period of time without rest. It improves cardiovascular fitness. Sometimes referred to as a steady state training.





CONTRACTIOCOMPETE

Unwritten agreement to follow and abide by the written and unwritten rules.





DEP BREATHIG

Slow, deep breaths whilst relaxed.





DHARATION

Excessive loss of body water interrupting the function of the body.





HYDRATION

Having enough water to enable normal functioning of the body.





REHADRATION

Consuming water to restore hydration.





DRECTAGESSION

Aggressive act which involves physical contact with others, eg a punch.





DURETICERUS

Drugs that remove fluid from the body, elevating the rate of bodily urine excretion.





DOMS

The pain felt in the muscles the day after exercise.





ECTOMORPH

A somatotype characterised by being tall and thin. Individuals with narrow shoulders and narrow hips.





BOLISM

Blockage of a blood vessel.





ENDOMORPH

A somatotype, characterised by a pear shaped body/fatness. Individuals with wide hips and narrow shoulders.





EXCESS POST-EXERCISE COMSUMPTION (EPOC)

Sometimes referred to as oxygen debt (now an outdated term), EPOC refers to the amount of oxygen needed to recover after exercise. EPOC enables lactic acid to be converted to glucose, carbon dioxide and water (using oxygen). It explains why we continue to breathe deeply and quickly after exercise.





ENTROPOLETIN(EPO)

A type of peptide hormone that increases the red blood cell count.





EIGLEITE

A convention or unwritten rule in an activity. It is not an enforceable rule but it is usually observed.





EXPIRE

BREATHE OUT





EXTERNALLY PAGED SKILL

The skill that is started because of an external factor. The speed, rate or pace of the skill is controlled by external factors, eg an opponent.





EXTRIGERED

Received from outside of the performer, eg from a coach. See Kinaesthetic feedback for a comparison.





EXTROVERT

Sociable, active, talkative, out-going personality type usually associated with team sports players.





FARILEKTRAING

Swedish for 'speed play'. Periods of fast work with intermittent periods of slower work. Often used in running, ie sprint, jog, walk, jog, sprint, etc.





FATIGLE

Either physical or mental, fatigue is a feeling of extreme or severe tiredness due to a build-up of lactic acid or working for long periods of time.





HHBACK

Information a performer receives about their performance. Feedback can be given during and/or after performance.





HEMOMENT

Small and precise movement, showing high levels of accuracy and coordination. It involves the use of a small group of muscles.





HIVESS

The ability to meet/cope with the demands of the environment.







FITT is used to increase the amount of work the body does, in order to achieve overload (see SPORT). FITT stands for:

- frequency how often you train
- intensity how hard you train
- time the length of the training session
- type the specific method, eg continuous training.





REXIBITY

The range of movements possible at a joint.





GAMESMANSHP

Attempting to gain an advantage by stretching the rules to their limit, eg time wasting.



GOALSETING



A method to increase motivation and reduce anxiety. Goals should be SMART:

- specific specific to the demands of the sport/muscles used/movements used
- measureable it must be possible to measure whether they have been met
- accepted they must be accepted by the performer and others involved,
 eg coach
- realistic they are actually possible to complete
- time bound over a set period of time.



GOALTYPES



Performance goals

Personal standards to be achieved.

Performers compare themselves against what they have already done or suggest what they are going to do. There is nno comparison with other performers.

Outcome goals

Focus on end result/winning.





GROSSIMOMENTS

Using large muscle groups to perform big, strong, powerful movements.



GUDANE



A method to convey information to a performer. Guidance methods:

- visual (seeing)
- verbal (hearing)
- manual (assist movement physical)
- mechanical (use of objects/aids).





HAEMOGLOBIN

The substance in the red blood cells which transports oxygen (as oxyhaemoglobin) and carbon dioxide.



HEALTH



A state of complete physical, mental and social well-being, and not merely the absence of disease or infirmity (as per the World Health Organisation- WHO). Ill health refers to being in a state of poor physical, mental and/or social well-being.





HEARTATTACK

It occurs when the flow of oxygen-rich blood to a section of heart muscle suddenly becomes blocked.





HEARTCHAMBERS

They include the right and left atria and ventricles.





HEARTRATE

The number of times the heart beats (usually measured per minute).

AQAP HCHINTENSTYINTERVALTRANG (HTT)

It's an exercise strategy alternating periods of short intense anaerobic exercise with less intense recovery periods (see Interval training).





HOOLIGANSM

Disorderly, aggressive and often violent behaviour by spectators at sporting events.





HOMEHEDADVANTAGE

Gaining an advantage in a sporting event from being in familiar surroundings, with the majority of the spectators supporting you.





HPERIBUSION

High blood pressure in the arteries.





HYPERIROPHY

The enlargement of an organ or tissue from the increase in the size of its cells.





INDRECTAGESSION

Aggression which does not involve physical contact. The aggression is taken out on an object to gain advantage, eg hitting a tennis ball hard during a rally.





INFORMATION PROCESSING

Making decisions. Gathering data from the display (senses), prioritising the most important stimuli to make a suitable decision.





INSPIRE

BREATHE IN





INTERVALTRAING

Periods of training/work that are followed by periods of rest, eg work, rest, work, rest (see High intensity interval training).





INTRIGEREN

Received via receptors in the muscles. Sensations that are felt by the performer, providing information from movement.





INROVERT

A quiet, passive, reserved, shy personality type, usually associated with individual sports performance.





ISOMETRICONTRACTION

Muscle contraction where the length of the muscle does not alter. The contraction is constant, ie pushing against a load.



Muscle contraction that results in limb movement:

- concentric contraction shortening of the muscle
- eccentric contraction lengthening of the muscle.





KINESHEICHEBACK

It's a type of intrinsic feedback, received via receptors in the muscles. Sensations that are felt by the performer, providing information from movement.





LEVELPLAMNGHELD

The same for all competitors.







A rigid bar (bone) that turns about an axis to create movement. The force to move the lever comes from the muscle(s). Each lever contains:

- a fulcrum fixed point, effort (from the muscle(s) to move it)
- load/resistance (from gravity).





LIESTYLE

SEE SEDENTARY LIFESTLYE





MASCULINTY

Displaying masculine (male) stereotypical behaviour.





MAXIMALHEARTRATE

Calculated by: 220-age





MECHANICALADIANIAGE

The efficiency of a working lever, calculated by: effort ÷ weight (resistance) arm







Diversified technologies which act as the main means of mass communication. These include:

- printed media (eg newspapers)
- broadcast media (eg TV and radio)
- internet/social media (eg Facebook)
- outdoor media (eg billboards).





MENTAL HEALTHANDWELL-BEING

A state of well-being in which every individual realises his/her own potential, can cope with the normal stresses of life, can work productively and fruitfully, and is able to make a contribution to her or his community (as per WHO). It works in conjunction with physical and social health.



MENTAL



RE-EARSAL/MSLAUSATION/IMAGERY

Cognitive relaxation techniques involving control of mental thoughts and imagining positive outcomes.





MESOMORPH

A somatotype, characterised by a muscular appearance. Individuals with wide shoulders and narrow hips.





MRALS

Inorganic substances which assist the body with many of its functions, eg bone formation (Calcium).



MOTIVATION



The drive to succeed or the desire (want) to achieve something/to be inspired to do something. This can be:

- Intrinsic the drive that comes from within (eg for pride, satisfaction, a sense of accomplishment, self-worth)
- extrinsic the drive to perform well or to win in order to gain external rewards (eg prizes, money, praise).



MOMENTATAJONT

OCR Oxford Cambridge and RSA

Classified into:

- flexion decrease in the angle of the bones at a joint
- extension increasing the angle of bones at a joint
- abduction movement away from the midline of the body
- adduction movement towards the midline of the body
- rotation movement around an axis
- plantar flexion pointing the toes at the ankle/increasing the ankle angle
- dorsi flexion toes up at the ankle/decreasing the ankle angle
- circumduction turning or circular motion around a joint (which occurs in more than one plane).





NARCOTICANALGESICS

Drugs that can be used to reduce the feeling of pain.





NIRTON

The intake of food, considered in relation to the body's dietary needs. Good nutrition is an adequate, well balanced diet, combined with regular physical activity.







A term used to describe people with a large fat content, caused by an imbalance of calories consumed to energy expenditure. A body mass index (BMI) of over 30 or over 20% above standard weight for height ratio.





CNERPMAX

The maximal amount that can be lifted in one repetition by a muscle/group of muscles (with the correct technique).





OPENSALL

A skill which is performed in a certain way to deal with a changing or unstable environment, eg to outwit an opponent.





PETIDEHORMONES

Drugs that stimulate the production of naturally occurring hormones (eg EPO), which increase red blood cell count/oxygen carrying capacity.





PHYSICAL HEALTHANDWELL-BEING

All body systems working well, free from illness and injury. Ability to carry out everyday tasks. It works in conjunction with social and mental health.





PHYSICLOGY

Study of how our cells, muscles and organs work together, and how they interact.



PLANE



Imaginary lines depicting the direction of movement. Types of planes:

- sagittal forwards and backwards
- frontal left or right
- transverse rotation around the longitudinal axis.





POSTIVESHIFTALK

Developing cognitive positive thoughts about your own performance.





POSTSEASON

Period of rest/active recovery/light aerobic work after the competition period (season).





POMENES RESIDENCE POMENTAL PROPERTY OF THE POMENT OF THE P

The product of strength and speed, ie strength x speed.







It is defined as:

- period leading up to competition
- usually using continuous/fartlek/interval training sessions to increase aerobic fitness
- weight training to build up strength and muscular endurance
- developing techniques specific to the sport in order to be fully prepared for matches at start of season and therefore be more successful.





PRICIPLESOFOREIGAD

Frequency, intensity, time and typE





PRICIESOFTRAING

Specificity, progressive overload, reversibility and tedium





PRIMEMORIAGINST)

Muscle or muscle group responsible for the movement.





PUSERAISER

Any activity that raises heart rate. Usually as part of a warm up, eg light jog.





QUALITATIVE

More of a subjective than an objective appraisal. Involving opinions relating to the quality of a performance rather than the quantity (eg score, placing, number).





QANTATIVE

A measurement which can be quantified as a number, eg time in seconds or goals scored. There is no opinion expressed (qualitative). It is a fact.





REACTIONTIME

The time taken to initiate a response to a stimulus, ie the time from the initiation of the stimulus (eg starting gun in 100 m) to starting to initiate a response (eg starting to move out of the blocks in 100 m).





RECOVERY

Time required to repair the damage to the body caused by training or competition.





RELABITY

Relating to the consistency and repeatability of a test (ie to produce same or similar scores).





REPETTIONS

The number of times an individual action is performed. A set is a group of repetitions.





RESIDALVOLIME

Volume of air left in the lungs after maximal expiration.





ROLEMOEL

A person looked to by others as an example to be imitated.







A period of time during which competition takes place or training seasons, dividing the year up into sectional parts for pre-determined benefits. Training seasons include:

- pre-season (preparation)
- competition season (peak)
- post-season (transition).





SEENTARYLESTYLE

A lifestyle with irregular or no physical activity.





SHE-PACED SALL

The skill is started when the performer decides to start it. The speed, rate or pace of the skill is controlled by the performer.





SKEITALSYSTEM

Skeletal system provides a framework of bones for movement, in conjunction with the muscular system.







A learned action/learned behaviour with the intention of bringing about predetermined results, with maximum certainty and minimum outlay of time and energy.





SKILLCLASSIFICATION

Categorisation of sporting skills in accordance with set continua. These include:

- simple/complex continua
- open/closed continua
- self-paced/externally-paced continua
- gross/fine continua.





SOCIAL HEALTHANDWILL-BEING

Basic human needs are being met (food, shelter and clothing). The individual has friendship and support, some value in society, is socially active and has little stress in social circumstances. It works in conjunction with physical and mental health.





SOMATOTYPE

A method of classifying body type. Body types:

- ectomorph
- endomorph
- mesomorph





SPED

The maximum rate at which an individual is able to perform a movement or cover a distance in a period of time, putting the body parts into action as quickly as possible. Calculated by: distance ÷ time



A measure of lung volumes, which includes:

- tidal volume volume of air inspired or expired/exchanged per breath
- inspiratory reserve volume the amount of air that could be breathed in after tidal volume
- expiratory reserve volume the amount of air that could be breathed out after tidal volume
- residual volume the amount of air left in the lungs after maximal expiration.





SPO\50R

An individual or group that provides financial support to an event, activity, person, or organisation.





SPORT-SPECIFICITY

Specificity

Making training specific to the sport being played/movements used/muscles used/energy system(s) used.





SPORT-PROGRESSIVEOVERLOAD

Gradual increase of the amount of overload so that fitness gains occur, but without potential for injury. Overload is the gradual increase of stress placed upon the body during exercise training (more than normal).





SPORT-REVERSIBLITY

Losing fitness levels when you stop exercising.





SPORT-TEDUM

Boredom that can occur from training the same way every time. Variety is needed.





SPO\SCHP

Provision of funds or other forms of support to an individual or event in return for some commercial return.





SPORTSMANSHP

Conforming to the rules, spirit and etiquette of a sport.





STATICSTRETCHIG

Holding a stretch still/held/isometric.







The ability to overcome a resistance. This can be explosive, static or dynamic:

- explosive see Power
- static static ability to hold a body part (limb) in a static position. Muscle length stays the same/maximum force that can be applied to an immoveable object
- dynamic see Muscular endurance for similarity.





STROKEVOLIME

The volume of blood pumped out of the heart by each ventricle during one contraction.





SLB-MAXIMAL

Working below maximal intensity level.





SPPLESS

As with flexibility, the range of movement possible at a joint.



SYNDALIGIT



An area of the body where two or more bones meet (articulate) to allow a range of movements. The ends of the bones are covered in articular cartilage and are enclosed in a capsule filled with fluid. For the purposes of this specification, the following structural features and roles should be known:

- synovial membrane secretes synovial fluid
- synovial fluid provides lubrication
- joint capsule encloses/supports
- bursae (sacks of fluid) reduce friction
- cartilage prevents friction/bones rubbing together
- ligaments attach bone to bone.





TANGELE

Something that can be seen and touched, eg a trophy.





TRAING

A well-planned programme which uses scientific principles to improve performance, skill, game ability, motor and physical fitness.





TRAINGTHRESHOLDS

The actual boundaries of the target zone.





VALIDTY

The extent to which a test or method measures what it sets out to measure.





MSCISTY

Thickening of the blood.





MTAMNS

Organic substances that are required for many essential processes in the body, eg Vitamin A for structure and function of the skin.





WEGHTRAING

The use of weights/resistance to cause adaptation of the muscles.





WELL-BEING

Involves physical, mental and social well-being. The dynamic process that gives people a sense of being comfortable, healthy or happy.