

PDHPE 6 Factors Affecting Performance - Training

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	adenosine triphosphate (ATP)	a high energy compound that stores and transfers energy to body cells allowing for muscle contraction	21	haemoglobin	the substance in the blood that binds to oxygen and transports it around the body
			22	kilojoule	a unit of measure of the energy value of food
2	aerobic interval training	alternating sessions of work and recovery	23	lactate inflection point (LIP)	a point beyond which a given power output cannot be maintained
3	aerobic metabolism	the breakdown of fuel in the presence of oxygen to produce energy (ATP)	24	lactate threshold	the point at which lactic acid accumulates rapidly in the blood
4.	aerobic threshold	a level of exercise intensity that is sufficient to cause a training effect (around 70% of maximal heart rate)	25	lactic acid	a by-product of the incomplete breakdown of carbohydrate in the absence of oxygen
5.	aerobic training zone	a level of intensity that causes the heart rate to be high enough to cause significant training gains	26	lung capacity	the amount of air that the lungs can hold
			27	mechanical energy	motion or movement energy
6	anaerobic	a reaction that occurs in the absence of oxygen	28	metabolism	the sum of all chemical processes within cells that transforms substances into energy
7	anaerobic glycolysis	the process where glucose is broken down in the absence of oxygen to produce energy	29	muscle hypertrophy	muscle growth together with an increase in the size of muscle cells
8	anaerobic threshold	a level of intensity where the accumulation of lactic acid in the blood increases very quickly	30	oxygen uptake	the ability of the working muscles to use the oxygen being delivered
9	atrophy	wasting away or decreasing in size	31	plyometrics	a special range of exercises in which a muscle
1	o. capillaries	tiny blood vessels that connect smallest arteries to the smallest veins			is lengthened using an eccentric contraction, then followed by a shortening or concentric contraction
1	cardiac output	the amount of blood pumped by the heart per minute	32	PNF stretching	a progressive cycle involving a static stretch, an isometric contraction and a period of
12	2. chemical energy	energy stored in bonds between atoms			relaxation in the lengthened position
11	3. circuit	activity in which participants may a fram and	33	respiration	the process of breathing
1.	training	activity in which participants move from one station to another performing specific exercises at each	34	resting heart rate	the number of heartbeats per minute while the body is at rest
14	4. creatine	an energy-rich compound that serves as an	35	resynthesis	the process of restoring ATP to its former state
	phosphate (CP)	alternate energy source for muscular contraction		slow-twitch muscle fibres	fibres that contract slowly for long periods of time and are recruited for endurance activities
1	5. dynamic stretching	activity using speed and momentum with movements experienced in a game to increase flexibility	37	static stretching	a safe form of stretching in which the stretch is held for a period of 10-30 seconds
1	fartlek training	activity in which particpants vary their speed and terrain, engaging both anaerobic and	38	strength	the ability of a muscle or muscle group to exert a force against a resistance
	(speed play)	aerobic energy systems	39	39. stretch reflex	an involuntary muscle contraction that
1	7 fast-twitch muscle fibres	fibres that reach peak tension quickly and are recruited for power and explosive movements			prevents fibre damage if muscles are lengthened beyond their normal range
1	B. flexibility	the range through which joints and body parts are able to move	40	stroke volume	the amount of blood ejected by the left ventricle of the heart during a contraction, measured in mL/beat
1	9. glycogen	the storage form of glucose, used for fuel when blood glucose levels decline			measured in mic/beat
2	glycolysis	the process of using glycogen or glucose as fuel			