## KNOWLEDGE ORGANISER (AO1, AO2 & AO3)

Movement at a joint:	Spirometer trace A measure of lung volumes, which includes:
flexion – decrease in the angle of the bones at a joint e.g. During the preparation phase of a football kick (knee bending)	
extension – increasing the angle of bones at a joint e.g. During the execution phase of a football kick (knee straightening)	- tidal volume – volume of air inspired or expired/exchanged per breath
abduction – movement away from the midline of the body e.g. During the execution (outwards phase) of a straddle jump in	Increases during exercise
trampolining.	-inspiratory reserve volume – the amount of air that could be breathed
adduction – movement towards the midline of the body e.g. during the stroke butterfly, dragging the arms back through	in after tidal volume
the water	Decreases during exercise
rotation – movement around an axis e.g. during a cricket bowl as the humorous turns in the shoulder socket (leg break)	-expiratory reserve volume – the amount of air that could be breathed
<b>plantar flevion</b> – pointing the toes at the ankle/increasing the ankle angle e.g. During the execution phase of a baskethall	out after tidal volume
iver the t	
jump shot	Decreases during exercise
dorsi flexion – toes up at the ankle/decreasing the ankle angle e.g. During the preparation phase of a set shot in basketball	- residual volume – the amount of air left in the lungs after maximal
Synovial joint - An area of the body where two or more bones meet (articulate) to allow a range of movements.	expiration.
- synovial membrane – secretes synovial fluid	Remains the same during exercise
<ul> <li>synovial fluid – provides lubrication to assist with movement / preventing friction</li> </ul>	0
- joint capsule – encloses/supports the joint	Aerobic - With oxygen. When exercise is not too fast and is steady, the heart can supply all the oxygen that the working
- bursae (sacks of fluid) – reduce friction	muscles need.
- cartilage – prevents friction/bones rubbing together. Absorbs shock e.g. when a performer is jumping during a jump shot.	Summarised as: glucose + oxygen → energy + carbon dioxide + water.
- ligaments - attach hone to hone. Restricts movement to prevent dislocation	
Agonist (prime mover) Muscle or group responsible for the movement (contracting)	Anaarabic Without awgan Whan avaraisa duration is short and at high intensity, the heart and lungs cannot supply
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Antagonist - Acts to produce the opposite action to the agonist (relaxing). They work in antagonistic pairs	blood and oxygen to muscles as fast as the respiring cells need them.
Antagonist view to produce the opposite deton to the agonist (relaxing). They work in antagonistic pairs.	Summarised as: glucose → energy + lactic acid
Isotonic contraction - Muscle contraction that results in limb movement:	Aerobic training zone
- Concentric contraction - shortening of the muscle e.g. execution phase of a chest pass.	The aerobic training zone allows the aerobic system to be trained. To define aerobic training zone:
- Eccentric contraction - lengthening of the muscle e.g. downwards phase of a squat during the preparation phase of a	1. Calculate maximum heart rate (220 bpm) minus age: 220-age
basketball set shot.	2. Work at 60-80% of maximum heart rate.
	The aerobic training zone- 80-90% of MHR.
Flexion/extension (forwards and backwards movement e.g. forward summersault) = Transverse axis /Sagittal Plane	<b>Excess post-exercise oxygen consumption (EPOC)</b> - Sometimes referred to as oxygen debt (now an outdated term).
Abduction/adduction (side to side movement e.g. cartwheel) = Sagittal axis /Frontal plane	EPOC refers to the amount of oxygen needed to recover after exercise. EPOC enables lactic acid to be converted to
Potation - longitudinal axis / transverse plane	glucese, carbon dioxide and water (using evugen). It explains why we continue to breathe deeply and quickly after
Rotation – longituuliai axis / transverse plane	sucreise
	exercise.
Levers - A rigid bar (bone) that turns about an axis to create movement. Each lever contains:	Stroke volume-ine volume of blood pumped out of the neart by each ventricle during one contraction.
-a <b>fulcrum</b> - fixed point (joint)	Heart rate- the number of times the heart beats per minute
-effort (from the muscle(s) to move it)	Cardiac output -The amount of blood ejected from the heart in one minute
- load/resistance (from gravity).	Cardiac output=stroke volume x heart rate (Q=SV X HR)
	During exercise= SV increases and HR increases this causes Q to increase
1 <sup>st</sup> Class = When the triceps are the agonist e.g. football throw in/ chest pass in basketball or netball/ header in football	Long term effect of a trained athlete at rest = SV increases due to hypertrophy of the cardiac muscle. This causes HR to
2 <sup>nd</sup> Class= Plantar-flexion and dorsi-flexion at the ankle e.g. sprint start position at the ankle	decrease. Q will therefore stay the same. A lower resting heart rate below 60bpm is called bradycardia.
3 <sup>rd</sup> Class= All other movements	<b>Cardiac cycle</b> - The process of the heart going through the stages of systole and diastole in the atria and ventricles.
	Vena cava>Atrium>ventricle>Pulmonary artery>lungs>nulmonary vein>atrium>ventricle> aorta
Class 1 Class 2 Lord Class 3 Lord	Pland procesure. The procesure that blood is under Types of procesure:
Effort Load	directelia, when the heart is releved. Direct fills into the strip
	- diastolic - when the heart is relaxed- Blood fills into the atria
	- systolic - when the heart is contracting
Effort	Atrial systole- the atrium contract and pumps blood into the ventricles
	Ventricular systole- the ventricles contract and pumps blood into the arteries
Mechanical advantage	Mechanics of breathing-inspiration: intercostal muscles contract, diaphragm contracts, increases chest cavity
The efficiency of a working lever, calculated by: effort + weight (resistance) arm	(decreases pressure) drawing air into the lungs. Changes during exercise pectorals and sternocleidomastoid contract.
1 <sup>st</sup> Class = Low mechanical advantage: short effort arm/long resistance arm	<b>Expiration</b> - intercostal muscles relax dianhragm relax decreases chest cavity (increases pressure) drawing air out
(more effort needed to overcome a resistance but greater range of movement and generates more speed)	Changes during exercise addominals contract
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Z Crass- night mechanical advantage: long effort arm/short resistance arm (loss offset as a dather as a satisfactor and the satisfactor and the satisfactor and the satisfactor advantage).	<b>nearth</b> - A state of complete physical, mental and social well-being, and not merely the absence of disease or infirmity. Ill
(less effort needed to overcome a resistance but smaller range of movement and less speed)	nealth refers to being in a state of poor physical, mental and/or social well- being.
	<b>Fitness</b> -The ability to meet/cope with the demands of the environment.
3 <sup>rd</sup> Class= Low mechanical Advantage: short effort arm/long resistance arm	
(more effort needed to overcome a resistance but greater range of movement and generates more speed)	



Muscular endurance (similar to dynamic strength): Ability of a muscle or muscle group to undergo repeated contractions,	Static stretching – Holding a stretch still/held/isometric
avoiding fatigue.	Advantages – Increases flexibility, everyone can do this, relative
e.g. Middle-distance running, rowing or swimming	Disadvantages- Can be time consuming, muscles are easier to s
Reaction time - The time taken to initiate a response to a stimulus.	Weight training -The use of weights/resistance to cause adaptat
e.g. the time from the initiation of the stimulus (e.g. starting gun in 100 m) to starting to initiate a response (e.g. starting to	Advantages – easily adapted for fitness e.g. muscular enduranc
move out of the blocks in 100 m).	Disadvantages- heavy weights can increase blood pressure, inju
	Repetitions - The number of times an individual action is perform
Flexibility – The range of movements possible at a joint.	One rep max - The maximal amount that can be lifted in one rep
e.g. A gymnast needs good flexibility to be able to perform movements such as, the splits	technique).
	Muscular Endurance below 70% of 1 rep max (3 x 12-15reps)
Strength -The ability to overcome a resistance. This can be explosive, static or dynamic:	Principles of training - <b>SPORT</b>
- explosive – see Power	<b>Specificity</b> -Making training specific to the sport being played
- static – static ability to hold a body part (limb) in a static position. Muscle length stays the same/maximum force that can be	movements used
applied to an immoveable object	muscles used
-dynamic – see Muscular endurance for similarity.	energy system(s) used.
<b>Speed</b> - The maximum rate at which an individual is able to perform a movement or cover a distance in a period of time.	Progressive overload
putting the body parts into action as quickly as possible.	Gradual increase of the amount of overload so that fitness gain
Calculated by: distance ÷ time	gradual increase of stress placed upon the body during exercise t
e.g. Olympic sprinters are able to perform the 100M sprint in less than 10 seconds	
<b>Coordination</b> -The ability to use different (two or more) parts of the body together, smoothly and efficiently,	<b>FITT</b> - is used to increase the amount of work the body does. in o
e.g. hitting a cricket ball with a bat (hand-eve co-ordination)	- frequency – how often you train e.g. training twice a week and
Balance - The maintenance of the centre of mass over the base of support. Reference can be made to whilst static (still) or	-intensity – how hard you train e.g. speed, level, intensity or we
dynamic (whilst moving).	-time – the length of the training session e.g. training for 45mins
e.g. A snowboarder aims to not fall over when making a downhill descent	- type – the specific method, e.g. continuous training.
Agility - The ability to move and change direction quickly (at speed) whilst maintaining control	
e.g. A footballer needs to change direction quickly whilst dribbling the ball to outwit the defender	Reversibility
<b>Power/explosive strength (anaerobic power)-</b> The product of strength and speed, i.e. strength x speed.	Losing fitness levels when you stop exercising. This could be cau
e.g. To perform a punch with power in boxing or a smash/spike in vollevball	
<b>Cardio-vascular endurance (aerobic power)</b> - The ability of the heart and lungs to supply oxygen to the working muscles.	
e.g. long-distance runners, team sports performers, endurance cyclists and rowers	Tedium
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Strength above 70% pf 1 rep max (3 x 4-8reps)
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