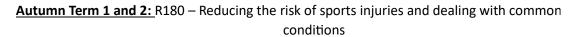
## **YEAR 11 Sport Science**



Key Vocabulary for lessons – Extrinsic and Intrinsic factors of injury, Physiological benefits of warming up, Psychological benefits of warming up, Cool down, Acute soft tissue injury, fractures and concussion, chronic injury, safety checks and risk assessments, emergency action plan, responses and treatment for injuries, therapies, asthmas, diabetes, epilepsy, sudden cardiac arrest, hypothermia, heat exhaustion, dehydration

Ability	Having the skill to do something
Abrasion	Surface damage to the skin; grazes
Achilles tendon	The largest tendon in the body; it stretches from the bones of the heel to the calf muscles
Achilles tendonitis	Inflammation of some part of the Achilles tendon
Acronym	A word composed of the first letters of the words in a phrase
Acute injuries	Injuries caused by impacts or collisions
Aggression	Intention to cause harm
Alzheimer's	Irreversible, progressive brain disorder that slowly destroys memory and thinking
disease	skills and, eventually, the ability to carry out everyday tasks
Anabolic steroids	Performance enhancing drugs that help performers increase muscle size and strength
Anaerobic	Without oxygen; oxygen is not used to produce energy during high-intensity, short-duration anaerobic exercise
Analgesics	Medication used to relieve pain
Anterior cruciate	Ligament that runs diagonally in the middle of the knee joining the femur to the
ligament (ACL)	tibia
Adrenaline	Hormone that prepares the body for exercise
Anti-epileptic	Medicine taken to help control seizures
drugs (AEDs)	The district career to ricip control sergares
Anxiety	Negative emotional state due to nervousness
Arousal	Level of activation or excitement
Asthma	A condition in which the airways narrow and swell, which can make breathing difficult
Bandaging	Used to prevent swelling, reduce pain, provide support or decrease blood flow to an injured area
Blister	Bubble on the skin caused by friction
Cast	Hard fibreglass or plaster casing designed to prevent broken bones from moving
Channelled	When feelings of aggression are diverted into positive, productive actions
aggression	
Chronic injuries	Injuries caused by continuous stress
Closed fracture	A broken bone with no break in the skin
Commotio cordis	A sudden trauma, such as a blow to the chest directly over the heart at certain
	points in the heartbeat cycle, that can cause sudden cardiac arrest
Concussion	Head injury in which the brain is shaken inside the skull
Confidence	Belief in your own ability to master a situation

Contact Sports	Sports where physical contact between performers is an accepted part of play
Contrast therapy	Use of quickly changing temperatures from hot to cold and back again to treat
	injuries
Contusion	Bruise caused by blood leaking into the surrounding area
Cool down	Easy exercise done after a more intense activity to allow the body to gradually
	move to a resting condition
Cryotherapy	Use of cold temperatures to treat injuries
Cut	Skin wound where the tissues of the skin become separated
Dehydration	Harmful reduction in the amount of water in the body
Delayed onset	Muscle pain that starts a day or two after an exercise workout
muscle soreness	
(DOMS)	
Dementia	General term for loss of memory, language, problem-solving and other thinking
	abilities that are severe enough to interfere with daily life
Diabetes	Condition in which blood sugar levels are not regulated by the body effectively
Diabetic	A condition caused by excess ketones in the blood
ketoacidosis	
(DKA)	Lucal can de calacidad a cata de citib atha ca
Direct aggression	Involves physical contact with others
Dislocation	When a bone is dislodged from its position in a joint
DRABC	Acronym for danger, response, airway, breathing and circulation; these are the steps that should be followed when initially attending to a casualty
Dynamic	Active stretching exercises
stretches	Active stretching exercises
Electrocardiogram	Technology used to detect the rhythm and electrical activity within the heart
(ECG)	realinology used to detect the mythm and electrical detivity within the ficult
(200)	Minerals found in blood, urine and sweat that carry an electric charge when
Electrolytes	dissolved in water. They help with hydration, balance blood acidity and regulate
,	nerve and muscle function
Electrotherapy	Use of electrical energy to treat injuries
Emergency action	Written document identifying what action to take in the event of an emergency
plan (EAP)	at a sporting event
Epicondylitis	Inflammation of an epicondyle of a bone
Epilepsy	Abnormal brain activity that causes recurring seizures
Extrinsic Factors	Where the factor or risk of injury comes from outside the body
Fitness	Set of qualities relating to a person's ability to perform physical activity
Fatigue	A feeling of overwhelming tiredness
Flexibility	The range of movement possible at a joint
Fracture	Partial or complete break in a bone
Glucose	Simple sugar found in blood used as an energy source
Hard tissue	Injuries to part of the skeletal system, such as fractures or dislocations
injuries	
Hazard	Something that can cause harm
Heat exhaustion	Fatigue and collapse resulting from prolonged exposure to excessive or
I lo cal u a 4° a ca	unaccustomed heat
Hydration	Drinking the right amount of water before, during and after exercise

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Hydrotherapy	Use of water to improve blood circulation, relieve pain and relax muscles
Hyperglycaemia	High blood sugar level
Hypoglycaemia	Low blood sugar level
Hypothermia	A dangerous drop in body temperature below 35°C
Ibuprofen	Non-steroidal anti-inflammatory medication used to ease pain and inflammation
Imagery	Creating an image of successful performance in the mind
Immobilisation	Stabilising and resting an injury by preventing unnecessary movement
Inhaler	Device that allows medicine to be breathed in
Insulin	A hormone that lowers blood glucose levels
Insulin-dependent	Another name for Type 1 diabetes
Insulin-resistant	Another name for Type 2 diabetes
Intrinsic Factors	Where the factor or risk of injury comes from within the body
Ketogenic diet	A diet high in fats and low in carbohydrates and proteins
Ketones	Chemicals produced by the liver during fat breakdown
Kinesiology tape	Stretchy tape applied strategically to provide support, lessen pain, reduce
	swelling and improve performance
Laceration	A torn or jagged wound caused by a sharp object
Lactic acid	Waste product of anaerobic exercise; it causes fatigue
Lateral	Inflammation of an epicondyle on the outer part of the elbow due to repetitive
epicondylitis	actions such as tennis strokes
(tennis elbow)	
Ligaments	Fibrous tissue that connects bone to bone and strengthens joints
Massage	Manipulating soft tissue to increase blood flow
Medical	A doctor's assessment of a performer's suitability for exercise.
Maintenance	Stretches designed to just maintain flexibility
stretches	
Medial	Inflammation of an epicondyle on the inner part of the elbow due to repetitive
epicondylitis	actions such as golf strokes
(golfer's elbow)	
Mental rehearsal	Going over a skill in the mind before performance
Nebuliser	Machine that allows medicine to be breathed in
Neoprene	Synthetic rubber used to make supports, mainly for joints
Non-contact	Sports where participants compete alternatively, or are physically separated or
sports	the rules detail no contact
Nutrition	The study of nutrients in food and how the body uses them
Open fracture	A broken bone that is exposed to the air through the skin
Overuse injuries	Chronic injuries caused by repetitive use
Painkillers	Medication used to relieve pain, for example paracetamol
Patellar	Inflammation of the tendon that connects the kneecap (patella) to the shinbone
tendonitis	(tibia)
PRICE	Advanced form of flevibility training involving both the stretching and
Proprioceptive	Advanced form of flexibility training, involving both the stretching and
neuromuscular	contracting of the muscles being targeted
facilitation (PNF)	Montal factors that affect a performer
Psychological	Mental factors that affect a performer
factors	

Recovery position	Position for an unconscious person that keeps their airway clear and open
Retaliation	The act of harming someone because they have harmed you
Risk	The likelihood of danger
Risk assessment	Careful examination of what, in relation to a sports activity, could cause harm to people
Rotator cuff tendonitis	Inflammation of the tendons that help to move the shoulder joint
SALTAPS	Acronym for see, ask, look, touch, active, passive, strength
Screening	A way of identifying those at risk of complications from exercise
Seizures	Bursts of electrical activity that temporarily affect how the brain works
Selective attention	Filtering out irrelevant information
Shin splints	Pain along the shinbone (tibia) that is common in long-distance runners and dancers
Sling	Support, usually of folded cloth, designed to immobilise and rest the arm
Splint	Plastic or fibreglass support for a limb injury
Spotters	Suitably sized and trained non-performers who are positioned around equipment, such as a trampoline or weights, to assist performers who may fall or be hurt by the equipment
Sprains	Injuries to ligaments
Static stretches	Stretches where the stretched position is held for many seconds in an attempt to improve flexibility
Strains	Injuries to muscles
Stress	The feelings we get when we find it difficult to cope with the demands placed on us
Soft tissue injuries	Injuries to muscles, tendons or ligaments
Stress fractures	Tiny cracks in a bone caused by repetitive force, often from overuse
Sudden cardiac arrest (SCA)	A condition in which the heart suddenly and unexpectedly stops beating
Sudden trauma	An impact or collision that causes an acute injury
Support	Methods used to protect sports injuries
Technique	Method used to perform a skill
Tendonitis	Inflammation of the tendons
Training	The process of bringing a person to a suitable level of proficiency
Triggers	Things that make epileptic seizures more likely
Ultrasound	Use of high-frequency sound waves to diagnose and treat injuries
Veterans (Vets)	Performers above a certain age that is a specific to the sport
Warm up	Exercises to prepare the body for exercise so that the chances of injury or ill effects are reduced

## Homework

- Will be set every two weeks.
- Task set will be a range of questions on retrieval practice of prior knowledge and longer written questions focused on GCSE style questions.
- All tasks will be focused on reinforcing the learning to date in Key Stage 4.

## Additional opportunities

If you wish to further develop your knowledge for Sports Science, you can use the following links:

CNAT Sport Science R180 Revision (Summer 2024) (youtube.com)

Cambridge Nationals Sports Science Exam Unit R180 Topic Area 1 Flashcards | Quizlet

R180: Reducing the risk of sports injuries and dealing with common medical conditions Sample Question Paper (ocr.org.uk)

Revision Notes 2024 CNAT Sport Science R180 (theeverlearner.com)