

Big ideas	porting injuries, Common medical conditions, Components of fitness, Fitness testing, Training programme, Response of the ody to exercise, Technology in sport science	
	Year 10	Year 11
Unit 1	Topic: Components of fitness applied in sport.Cardiovascular endurance/ staminaMuscular enduranceSpeedStrengthPowerAgilityBalanceFlexibilityCoordinationReaction timePrior learning:Basic understanding of components of fitness E.G Shot putt- Power, practical PE performance (football, rugby, netball, rounders, cricket, athletics, softball, fitness suite)	Topic: Different factors which influence the risk and severity of injury Extrinsic factors Intrinsic factors Coaching Instructing Leading Experience Communication skills Knowledge of techniques/rules/regulations Environment Equipment Individual variables Psychological factors Reasons for aggression Prior learning: Students will have basic knowledge of psychological factors, which has been
	<i>Future learning:</i> Linking components to sporting examples to improve performance	 accessed through character education lessons (Stress, Anxiety and Confidence). Students will know what level of fitness they are through Core PE & Elite lessons. <i>Future learning:</i> Students will know what types of nutrients they will need to intake to perform well in their sport and know how to prevent recurring injuries.



Topic: Principles of training in sport. FIIT principles SMART goals SPORT principles Methods of training Aerobic & Anaerobic exercises <i>Prior learning:</i> Types of training, aerobic and anaerobic (science lessons), Future learning: Apply a training method to improve sporting performance Understand the advantages and disadvantages of each method or training	 Topic: Warm up and cool down routines. Key components of a warm up Key components of a cool down Physiological & Psychological benefits of a warm up Physiological & Psychological benefits of a cool down Stretching <i>Prior learning:</i> Basic warm up and cool down during core and elite PE lessons. <i>Future learning:</i> Making the warm ups specific to the sport being taught/ played. Including static stretches for a cool down.
 Topic: Organising and planning a fitness training programme. Designing a fitness training programme Factors/ considerations to inform planning Applying principles of training Elements of a training programme <i>Prior learning:</i> Basic Warm up and cool down (core PE and elite) Use of equipment <i>Future learning:</i> To be able to apply a training session to improve performance for any sport 	Topic: Different types and causes of sports injuries. Acute injuries Soft tissue Hard tissue Strains Sprains Skin Damage Factures Dislocations Head injuries Chronic injuries Tendonitis Epicondylitis Shin splints Stress fractures <i>Prior learning</i> :



		Basic knowledge of cuts, blisters, grazes & bruises. Future learning : Having a better understanding of different sporting injuries.
Unit 2	 Topic: Evaluate own performance in planning and delivering a fitness training programme. Goal setting Training methods Fitness component links correctly to skill test <i>Prior learning:</i> Able to give feedback to peers in core and eliet lessons. Have an understanding of fitness. <i>Future learning:</i> Develop and encourages Long life participation 	Topic: Reducing risk, treatment and rehabilitation of sports injuries and medical conditions.Safety ChecksStrategies to help reduce the risk of sports injuriesMedical conditions in sporting contextEmergency action planResponses and treatment to injuriesSALTAPS on-field assessment routineDRABCRecovery positionPRIC therapyX-rayDetect injuryTreatmentTherapiesPrior learning:Knowledge of basic hazards before taking part in sport. Rest, ice compression elevation (RICE)Future learning:Learn how to prevent them or recover from a sporting injury.
	Topic: The cardio-respiratory system and how the use of technology supports different types of sports and their intensities. Heart Pulse rate Lungs Diaphragm Blood vessels Blood pressure	Topic: Causes, symptoms and treatment of medical conditions. Asthma Treatment Diabetes Epilepsy Seizures Cardiac arrest Hypothermia



	Respiratory system Internal respiration Gaseous Exchange Prior learning : Science (cardio-respiratory system), IT Future learning : A clearer understanding of the Health benefits	Heat exhaustion Dehydration Prior learning : Basic knowledge of dehydration symptoms & treatment, causes of heat exhaustion/ symptoms and treatments of heat exhaustion. Future learning : Learn how to prevent them or recover from a sporting injury.
Init	Topic: The musculo-skeletal system and how the use of technology supports different types of sports and their movements. Bones Muscles Joints Connective tissue Different types of movements Technology that can inform how the musculo-skeletal system is responding <i>Prior learning:</i> <i>Science</i> (musculo-skeletal system), IT <i>Future learning:</i> <i>A clearer understanding of the Health benefits</i>	 Topic: Revision Question analysis Scenario analysis Prior learning: All previously learnt topics as exam is synoptic so encompasses all knowledge Future learning: A-Level sport, Cambridge Technical Sport and Physical Activity, BTEC National Sport, BTEC National Sport and Exercise Science
	Topic: Short-term effects of exercise on the cardio-respiratory and musculo-skeletal systems.Heart rate Breathing rate Range of movements of jointsPrior learning: Science (heart, lungs, skeleton)Future learning: A clearer understanding of the Health benefits (short)Topic: Long-term effects of exercise on the cardio-respiratory and musculo-skeletal systems.	



Changes in muscle size and strength
Changes to resting heart rate
Changes to stroke volume
Changing to cardiac output
Changes in heart rate recovery
Changes in flexibility
Changes in muscle recovery
Changes in DOMs
Changes in lactic acid
Changes in lung capacity
Long term adaptations as a result of performing at different intensities
Prior learning:
Science (heart, lungs, skeleton)
Future learning:
A clearer understanding of the Health benefits (long)