

Big ideas	Sporting injuries, Common medical conditions, Components of fitness, Fitness testing, Training programme, Response of the body to exercise, Technology in sport science		
	Year 10	Year 11	
Unit	<ul> <li>Topic: Components of fitness applied in sport.</li> <li>Cardiovascular endurance/stamina</li> <li>Muscular endurance</li> <li>Speed</li> <li>Strength</li> <li>Power</li> <li>Agility</li> <li>Balance</li> <li>Flexibility</li> <li>Coordination</li> <li>Reaction time</li> <li>Prior learning:</li> <li>Basic understanding of components of fitness E.G</li> <li>Shot putt- Power, practical PE performance (football, rugby, netball, rounders, cricket, athletics, softball, fitness suite)</li> <li>Future learning:</li> <li>Linking components to sporting examples to improve performance</li> <li>Topic: Principles of training in sport.</li> <li>FIIT principles</li> <li>SMART goals</li> <li>SPORT principles</li> <li>Methods of training</li> <li>Aerobic &amp; Anaerobic exercises</li> <li>Prior learning:</li> <li>Types of training, aerobic and anaerobic (science lessons),</li> <li>Future learning:</li> <li>Apply a training method to improve sporting performance</li> <li>Understand the advantages and disadvantages of each method or training</li> </ul>	<ul> <li>Topic: Different factors which influence the risk and severity of injury <ul> <li>Extrinsic factors and Intrinsic factors</li> <li>Coaching, Instructing &amp; Leading</li> <li>Experience</li> <li>Communication skills</li> <li>Knowledge of techniques/rules/regulations</li> <li>Environment</li> <li>Equipment</li> <li>Individual variables</li> <li>Psychological factors</li> <li>Reasons for aggression</li> </ul> </li> <li>Prior learning: <ul> <li>Students will have basic knowledge of psychological factors, which has been accessed through character education lessons (Stress, Anxiety and Confidence).</li> <li>Students will know what level of fitness they are through Core PE &amp; Elite lessons.</li> </ul> </li> <li>Future learning: <ul> <li>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.</li> </ul> </li> <li>Topic: Warm up and cool down routines.</li> <li>Key components of a warm up &amp; cool down <ul> <li>Physiological &amp; Psychological benefits of a warm up &amp; cool down</li> <li>Stretching</li> </ul> </li> <li>Prior learning: <ul> <li>Basic warm up and cool down during core and elite PE lessons.</li> </ul> </li> <li>Future learning: <ul> <li>Making the warm ups specific to the sport being taught/ played. Including static stretches for a cool down.</li> </ul> </li> </ul>	
	Apply a training method to improve sporting performance Understand the advantages and disadvantages of	Making the warm ups specific to the sport being taught/ played. Including static stretches for a cool	



		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
		Prior learning:
		Basic knowledge of cuts, blisters, grazes & bruises.
		Busic knowledge of cuts, blisters, gruzes & bruises.
		Future learning:
		-
		Having a better understanding of different sporting
		injuries.
Unit	Topic: Organising and planning a fitness training	Topic: Reducing risk, treatment and rehabilitation
	programme.	of sports injuries and medical conditions.
2	Designing a fitness training programme	Safety Checks
	Factors/ considerations to inform planning	Strategies to help reduce the risk of sports injuries
	Applying principles of training	Medical conditions in sporting context
	Elements of a training programme	Emergency action plan
	clements of a training programme	Responses and treatment to injuries
	Prior learning:	SALTAPS on-field assessment routine
	-	DRABC
	Basic Warm up and cool down (core PE and elite)	
	Use of equipment	Recovery position
	F A State State	PRICE therapy
	Future learning:	X-ray
	To be able to apply a training session to improve	Detect injury
	performance for any sport	Treatment
		Therapies
	Topic: Evaluate own performance in planning and	
	delivering a fitness training programme.	Prior learning:
	Goal setting	Knowledge of basic hazards before taking part in
	Training methods	sport. Rest, ice compression elevation (RICE)
	Fitness component links correctly to skill test	
		Future learning:
	Prior learning:	Learn how to prevent them or recover from a
	Able to give feedback to peers in core and elite	sporting injury.
	lessons. Have an understanding of fitness.	
	Future learning:	
	Develop and encourages Long life participation	



		Topic: Causes, symptoms and treatment of medical conditions.AsthmaTreatmentDiabetesEpilepsySeizuresCardiac arrestHypothermiaHeat exhaustionDehydrationPrior 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
Unit 3	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 Respiratory system Internal respiration Gaseous Exchange <b>Prior learning:</b> Science (cardio-respiratory system ), IT <b>Future learning:</b> A clearer understanding of the Health benefits <b>Topic: The musculo-skeletal system and how the</b> use of technology supports different types of sports and their movements. Short term effects cardio-respiratory and musculo-skeletal systems Long term effects cardio-respiratory and musculo-skeletal systems Technology in sport - Wearable - Lab - Field	<ul> <li>sporting injury.</li> <li>Topic: Revision Question analysis Scenario analysis</li> <li>Prior learning: All previously learnt topics as exam is synoptic so encompasses all knowledge</li> <li>Future learning: A-Level sport, Cambridge Technical Sport and Physical Activity, BTEC National Sport, BTEC National Sport and Exercise Science</li> </ul>



*Linking to cardio-respiratory and musculo-skeletal systems	
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Prior learning:	
Science (musculo-skeletal system), IT	
Futuro lografian	
Future learning:	
A clearer understanding of the Health benefits	
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Topic: Short-term effects of exercise on the	
cardio-respiratory and musculo-skeletal systems.	
Heart rate	
Breathing rate	
Range of movements of joints	
Prior 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	
unerent intensities	
Prior learning:	
Science (heart, lungs, skeleton)	
Science (neuri, nungs, skeleton)	
Future learning:	
A clearer understanding of the Health benefits	
(long)	