



BTEC Extended Certificate in Sport / Unit 2

Fitness Training and Programming for Health, Sport and Well-being

Learning Aim A - Positive and negative lifestyle factors and health screening tests





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Lesson/Learning Sequence		ended Knowledge: Idents will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
Lesson 1	•	the 6 lifestyle factors - physical activity, smoking, alcohol consumption, sleep, stress and diet	Chronic Acute	•	
Positive Lifestyle Factors	•	Categorise the benefits of physical activity into: physical, psychological, social and economic benefits	Psychological		
	•	<u>Physical</u> - strengthens bones, improves posture, reduces the risk of chronic diseases and improves body shape			
Benefits of exercise and physical activity	•	<u>Psychologica</u> l - relieves stress, reduces depressions, improve mood, improves concentration	Economic		
	•	<u>Social</u> - Encourages social interaction, improves social skills, reduces isolation, improves self-esteem and confidence			
	•	<u>Economic</u> - reduces NHS costs, creates employment, supports local businesses and reduces absenteeism from work			
	•	Understand that the term chronic means - long term / happens over a prolonged period of time			
	•	Understand that the term acute means - instant / happens quickly			
Lesson 2 Healthy diet	•	The description of a healthy diet is: This provides the correct amount of nutrients required by your body.		PSHE - balanced diet Eatwell plate	
,	•	The sections of the Eatwell plate are: starchy carbohydrates, fruit and vegetables,		GCSE PE pupils (Y10/11) – diet and nutrition unit	
Sections of the Eatwell plate		proteins, dairy, oils and spreads (section not in EWP - high in sugar - chocolate, sweets)			
Benefits of a healthy diet	•	Benefits of a healthy diet are: improve immune function, maintaining a healthy body weight, reducing risk of chronic diseases,			
Strategies to improve diet	•	Strategies to improve diet are: timing of meals, eating less or more of certain foods groups, five a day, reducing salt intake, healthy alternatives			
Lesson 2 / HWK	•	The description of positive-risk taking activities - Activities that take you out of your comfort zone and have a bigger risk of danger/failing.			
Positive risk-taking activities	•	The benefits of positive risk-taking activities are : outdoor adventurous activities, endorphin release, improved confidence			
	•	Government recommendation for physical activity - Adults $(19-64)$ - 150 mins modvig exercise per day + 2 x strength activities, Children $(5-18)$ – 60 mins exercise every day, Elderly adults $(65+)$ – active daily, 150 mins mod-vig exercise per day + 2 x strength activities			
Government	•	Government recommendation for alcohol - 14 units			
recommendation	•	Government recommendation for sleep - 8 hours (7-9) for adults			
recommendation	•	Government recommendation for calorie intake - men 2500kcal / women 2000kcal			
	•	Government recommendation for water intake - 2 litres / 4 pints / 6-8 glasses per day			
	•	Government recommendation for caffeine intake - 4-5 cups a day			



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Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment			
Lesson 3 and 4	The smoking health risks are: Coronary Heart Disease (CHD), Cancer, lung disease, acute/chronic bronchitis, infertility	Coronary Heart Disease (CHD)					
Negative lifestyle factors	Coronary Heart Disease (CHD) means - Coronary heart disease is the term that describes what happens when your heart's blood supply is blocked or interrupted by a build-up of fatty substances in the coronary arteries.						
Risks associated with	 Cancer means - a disease caused by an uncontrolled division of abnormal cells in a part of the body Lung disease - Lung disease is any problem in the lungs that prevents the lungs from 	Cancer					
smoking	 working properly. There are three main types of lung disease, Airway diseases - diseases that effect the tubes (airways) asthma, bronchitis, COPD - chronic obstructive pulmonary disease Lung tissue diseases - scarring and inflammation of tissue - e.g - emphysema Lung circulation diseases - clotting, scarring and inflammation of the blood 						
	vessels e.g. pulmonary hypertension	Circulation	GCSE PE – respiratory system content				
	The airways of the lungs refer to the bronchi (bronchus), bronchioles	Airways	• Pulmonary refers to lungs				
	The term pulmonary refers to the lungs	Pulmonary	 Bronchus/bronchioles are airways leading to the 				
	The term obstructive means that something is causing a blockage	Obstructive	alveoli in the lungs				
			 Alveoli are air sacs where the process of gaseous 				
	 Bronchitis is an infection of the main airways of the lungs (bronchi), causing them to become irritated and inflamed. 	Bronchitis	exchange takes place in the lungs				
	 Emphysema is a disorder affecting the alveoli (tiny air sacs) of the lungs. The transfer of oxygen and carbon dioxide in the lungs takes place in the walls of the alveoli. In emphysema, the alveoli become abnormally inflated, damaging their walls and making it harder to breathe. 	Emphysema					
	The alcohol health risks are: stroke, cirrhosis of the liver, hypertension, depression						
Risks associated with	Stroke is a serious life-threatening medical condition that happens when the blood supply to part of the brain is cut off	Stroke					
excessive alcohol consumption	Cirrhosis of the liver - a chronic disease of the liver marked by degeneration of cells, inflammation, and scarring of tissue. It is typically a result of alcoholism or hepatitis. This condition can result in jaundice.	Cirrhosis					
	 Jaundice is when your skin or the whites of your eyes turn yellow. It can be a sign of something serious, such as liver disease, so you need to get urgent medical help. 	Jaundice					
	 Hypertension - High blood pressure, or hypertension, rarely has noticeable symptoms. But if untreated, it increases your risk of serious problems such as heart attacks and strokes. 	Hypertension	GCSE PE students know that high blood pressure is a long term negative effect of leading a sedentary lifestyle and excessive alcohol consumption				
	Depression - feelings of severe despondency and dejection.	Depression	excessive alcohol consumption				
			Depression (GCSE PE link) to emotional consequences of leading a sedentary lifestyles				
Risks associated with stress	The stress health risks are: hypertension, angina, stroke, heart attack, stomach ulcers, depression						



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	 Hypertension - High blood pressure, or hypertension, rarely has noticeable symptoms. But if untreated, it increases your risk of serious problems such as heart attacks and strokes. 	Hypertension		
	 Angina - a condition marked by severe pain in the chest, often also spreading to the shoulders, arms, and neck, owing to an inadequate blood supply to the heart 	Angina		
	Stroke is a serious life-threatening medical condition that happens when the blood supply to part of the brain is cut off	Stroke		
	Heart attack - is a serious condition where the supply of blood to the heart is suddenly blocked. It needs to be treated as quickly as possible	Heart Attack		
	Stomach Ulcers - (gastric ulcers) are open sores that develop on the lining of the stomach.	Stomach Ulcers		
	Depression - feelings of severe despondency and dejection.	Depression	Depression (GCSE PE link) to emotional consequences of leading a sedentary lifestyles	
Risks associated with	Poor diet health risks are: Type 2 diabetes, obesity, osteoporosis, hypertension, high cholesterol			
poor diet	Type 2 diabetes - is a condition that causes too much sugar in your blood. It can cause serious health problems if not treated.	Type 2 diabetes		
	Obesity - The term obese describes a person who's very overweight, with a lot of body fat. It's a common problem in the UK that's estimated to affect around 1 in every 4 adults and around 1 in every 5 children aged 10 to 11.	Obesity Osteoporosis	 GCSE PE link – pupils know that obesity, type 2 diabetes and osteoporosis are physical consequences of a poor diet/sedentary lifestyle 	
	Osteoporosis - is a health condition that weakens bones, making them fragile and more likely to break. It develops slowly over several years and is often only diagnosed when a fall or sudden impact causes a bone to break (fracture).			
	 Hypertension - High blood pressure, or hypertension, rarely has noticeable symptoms. But if untreated, it increases your risk of serious problems such as heart attacks and strokes. 	Hypertension		
	High Cholesterol - is when you have too much of a fatty substance called cholesterol in your blood. It's mainly caused by eating fatty food, not exercising enough, being overweight, smoking and drinking alcohol. It can also run in families. You can lower	High cholesterol		
	your cholesterol by eating healthily and getting more exercise. o Low density lipoproteins (LDL) - cholesterol, sometimes called "bad" cholesterol, makes up most of your body's cholesterol. High levels of LDL	Low density lipoprotein (LDL)		
	cholesterol raise your risk for heart disease and stroke o High density lipoproteins (HDL) - cholesterol, sometimes called "good" cholesterol, absorbs cholesterol in the blood and carries it back to the liver. The liver then flushes it from the body. High levels of HDL cholesterol can lower your risk for heart disease and stroke	High density lipoprotein (HDL)		
Risks associated with	Lack of clean health ricks are: depression and ever pating.			
	Lack of sleep health risks are: depression and over eating	Depression		
lack of sleep	Depression - feelings of severe despondency and dejection.			
	 Overeating - Overeating occurs when an individual consumes more calories in relation to the energy that is expended via physical activity, leading to weight gain and often obesity. Overeating is the defining characteristic of binge eating disorder. 	Overeating		



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Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
Lesson 5 Health Screening methods	 The 3 methods of health screening are: lifestyle questionnaires, physical activity readiness questionnaire (PAR-Q) and health tests such as: Blood pressure Resting heart rate Body mass index (BMI) Waist to hip ratio 			
1. Blood pressure	 Blood pressure - is the pressure of blood pushing against the walls of your arteries. Arteries carry blood from your heart to other parts of your body. Your blood pressure normally rises and falls throughout the day. Blood pressure is measured in millimetres of mercury (mmHg) and is given as 2 figures: 	Blood pressure		
	 systolic pressure – the pressure when your heart pushes blood out diastolic pressure – the pressure when your heart rests between beats and fills For example, if your blood pressure is "140 over 90" or 140/90mmHg, it means you have a systolic pressure of 140mmHg and a diastolic pressure of 90mmHg 	Systolic Diastolic		
	 ideal blood pressure is considered to be between 90/60mmHg and 120/80mmHg high blood pressure (hypertension) is considered to be 140/90mmHg or higher low blood pressure is considered to be 90/60mmHg or lower 	Hypertension		
2. Resting heart rate	Resting heart rate - the number of times the heart beats at rest	Resting heart rate	GCSE PE link – pupils know how to work out their own heart rate (resting, working, recovery). GCSE pupils would know	
3. Body Mass Index (BMI)	 Body Mass Index (BMI) - is a measure that uses your height and weight to work out if your weight is healthy. The BMI calculation divides an adult's weight in kilograms by their height in metres squared. For example, A BMI of 25 means 25kg/m2. 	Body Mass Index	how to work out their maximum heart rate 220-AGE	
	• For most adults, an ideal BMI is in the 18.5 to 24.9 range.			
	 Muscle is much denser than fat, so very muscular people, such as heavyweight boxers, weight trainers and athletes, may be a healthy weight even though their BMI is classed as obese. 			
4. Waist to Hip Ratio	Waist to Hip ration - compares your waist measurement to your hip measurement. Higher ratios can mean you have more fat around your waist. This can lead to a higher risk for CHD, heart disease or type 2 diabetes	Waist to hip ratio		
Lesson 6 Linking lifestyles and health results	 Risks if results are poor - blood pressure / resting heart rate Strain on heart and blood vessels Increased risk of heart attack Increased risk of stroke Kidney disease Risks if results are poor - BMI and waist to hip ratio Too high: Hypertension, Heart disease, Type 2 diabetes, Sleep problems, Osteoporosis, Infertility Too low: Brittle bones, No periods in women, Anaemia (low iron) 			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Recommendations to	Recommendation to improve diet from lesson 2 are same as the recommendations to		Recommendation to improve diet from lesson 2	
improve results	improve health test results/lifestyle:			
			Eat less salt, Eat more fruit and veg, Maintain healthy weight, Drink	
	Eat less salt, eat more fruit and veg, maintain healthy weight, drink less, stop		less, Stop smoking, More active, Reduce caffeine intake	
	smoking, more active, reduce caffeine intake			
Lesson 7	Pupils given a scenario		•	
	 What are the positive and negative lifestyle factors? 			
Interpreting lifestyle	What are the health risks?			
factors and screening	What are the government guidelines for the person in the scenario, based on			
	their gender and age?			
results	What are the health ranges for the client (age and gender) for the four tests			
	and their health risks?			
	Can you make predications? Do we think they smoke? Drink to much? Poor			
	diet? Lack of physical activity? Lack of sleep? Suffer from stress?			
Lesson 8	SSS Feedback Lo	esson - Question 1 attem	pted (Helen Jones)	





BTEC Extended Certificate in Sport / Unit 2

Fitness Training and Programming for Health, Sport and Well-being

Learning Aim B - Lifestyle Modification Techniques



Lesson/Learning Sequence	Inter	nded Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
		ents will know that	The Survey Survey	In order to know this students, need to already know that	7.555555
Lesson 1	•	Recap / reinforce negative lifestyle factors and how they can be improved? And what could prevent her from improving her lifestyle?		Negative lifestyle factors from unit A	
Barriers to change	•	Each lifestyle factor can be improved in many different ways known as strategies	Strategies		
	•	Strategy: 'a plan of action designed to achieve a long-term or overall aim'.			
	•	Not every strategy will work for an individual			
	•	There are many barriers that hinder an individual's commitment to change their lifestyle	Barriers		
	•	Hinder: 'make it difficult for (someone) to do something or for (something) to happen'	Hinder		
	•	It's important to have a number of strategies in mind to suit personal circumstances			
	•	Physical and personal barriers to exercise - pupils mindmap			
	•	Barriers to change: cost, time, transport, location, motivation and family obligations			
	•	Barriers to change - task			
		Some people find it hard to make changes to their lifestyle particularly when it comes to getting enough exercise into a weekly routine. This is due to the many 'barriers' that get in the way. It is important that strategies are used to overcome these barriers.			
	Task				
	•	Consider how the barriers to change could prevent these individuals from improving their lifestyle.			
	•	Suggest a strategy to overcome the barrier.			
	•	Scenario 1:			
	•	Julie is a single mum with 3 children. She works 8am-4pm and visits her elderly parents three times a week. She wants to exercise more.			
	•	Scenario 2:			
		Simon is retired and lives on his own in the countryside. He has smoked 15 cigarettes a day for 30 years. He wants to give up but has tried many times before with no success.			
	•	<u>Feedback using visualiser</u> - students work and using PPT with answers - pupils stop and jot	Disposable income		
		Disposable income is the amount of money that a person or household has to spend or save after bills/living costs are deducted.			
	•				



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Lesson 2	Rapid retrieval - low stakes quiz - pupils green pen		•	
LC33011 2				
	Lifestyle improvement strategies			
Lifestyle medication	Increasing physical activity levels			
techniques 1 -				
increasing physical	Quitting smoking			
	Reducing alcohol consumption			
activity	 Stress management techniques 			
	Increasing physical activity levels			
	At home			
	At work			
	During leisure time			
	Method of transport			
	·			
	Quitting smoking			
	Acupuncture			
	NHS stop smoking helpline			
	NHS smoking respire			
	Nicotine replacement therapy			
	Quit Kit support packs			
	Quit Nit support packs			
	Reducing cleak of consumption			
	Reducing alcohol consumption			
	Self-help groups			
	Counselling			
	Alternative treatments			
	Drink Less:			
	Alcohol free/low alcohol drinks			
	Alternating with soft drinks			
	Stress management techniques			
	Assertiveness training	Assertiveness		
	Goal setting			
	Time management			
	Physical activity			
	Positive self-talk			
	Relaxation			
	Alternative therapies			
	Changes to work-life balance			
	Changes to work-life balance			
	Tier 2 Vocab - Assertiveness: 'the quality of being confident and not frightened to say what			
	you want or believe'			
	you want or believe			
	Nick company to the control of the c			
	Not every strategy will work for an individual			
	Each strategy comes with pros and cons			
	You need to know which ones would be suitable depending on the client's			
	lifestyle and personal situation			
	You must consider the BARRIERS TO CHANGE.			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Pupils complete the strategy info sheet using the following resources:			
	Pages 72-76 in the text book, Revision guide, NHS Live well site, Cancer Research UK, Rethinking Drinking			
	Complete information for increasing PA strategy from our spec. Assign a strategy to a pupils / pair / group: • At home • At work • During leisure time			
	Method of transport			
	 Include Lifestyle factor associated with What the strategy involves Advantages and disadvantages – link to the barriers to change 			
	SSS - green pen (Self-assessment) - Stop and jot - Show pupils the completed example of increasing physical activity - photocopy the sheets for the group so everyone has a copy for revision purposes			
Lesson 3	Recap task to identify lifestyle modification strategies - fill in the blanks		•	
Lifestyle modification	Pupils complete the strategy info sheet using the following resources:			
techniques 2 - smoking	Pages 72-76 in the text book, Revision guide, NHS Live well site, Cancer Research UK, Rethinking Drinking			
	Complete information for strategies quitting smoking from our spec:			
	SSS - green pen (Self-assessment) - Stop and jot - Show pupils the completed example of acupuncture			
	Assign a strategy for quitting smoking to a pupil / pair in the class: then photocopy them when completed for everyone in the group			
	NHS stop smoking helpline			
	NHS stop smoking services			
	Nicotine replacement therapy			
	Quit Kit support packs			
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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment	
	Students will know that		In order to know this students, need to already know that		
Leasen A					
Lesson 4	Reducing alcohol consumption:		•		
	Pupils complete the strategy info sheet using the following resources:				
Lifestyle modification					
techniques 3 - alcohol	Pages 72-76 in the text book, Revision guide, NHS Live well site, Cancer Research UK,				
	Rethinking Drinking				
and stress	rectificing of finding				
	Complete information for strategies that reduce alcohol consumption from our				
	spec:				
	SSS - green pen (Self-assessment) - Stop and jot - Teacher live models an example for self-				
	help groups with the pupils (I DO, WE DO, YOU DO)				
	Heip groups with the pupils (100, WE 00, 100 00)				
	Assign a strategy for reducing alcohol consumption to a pupil / pair in the class: then				
	photocopy them when completed for everyone in the group:				
	Counselling				
	Alternative treatments				
	Autoritative dicatments				
	Drink Less:				
	Alcohol free/low alcohol drinks				
	Alternating with soft drinks				
	Atternating with soft drinks				
	Task.				
	Task:				
	Alcohol strategy example - matching exercise				
	SSS - pupils shares and explains completed table with the class - pupils stop and jot (green				
	pen work)				
	Stress management techniques				
	Assign a stress management technique to a pupil each (depending on the numbers in the				
	group)				
	Assertiveness training Coal action				
	Goal setting				
	Time management				
	Physical activity				
	Positive self-talk				
	Relaxation				
	Alternative therapies				
	Changes to work-life balance				
	Changes to work-life balance				
	Complete the stress management to make from the traction of the control of the co				
	Complete the stress management template for each strategy - one per pupil if possible				
		1	I .		





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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Lesson 6	Helen Jones - scenario - share Part A again		•	
Building a response to				
question 2	STARTER ACTIVITY			
question 2	1. What lifestyle factors does Helen need to			
4	improve?			
(Question is marked				
out of 12)	2. Can you justify a rank order?			
	Teacher - shares how you gain the marks - question 2 is out of 12 marks			
	, , ,			
	Activity 2			
	Assessment Band 0 Band 1 Band 2 Band 3	Band 4		
		10-12		
	Proposed lifestyle Proposed life	sed lifestyle		
	inodification confininges information confininges information confininges information	cation techniques nstrate specific		
	lifestyle factor relevance to the relevance to the the individual's lifestyle relevan	nce to the		
	requirements, requirements, requirements.	lual's lifestyle and ements.		
	change Justification for proposed	cation for proposed		
	modifications might be modifications is often and relevant to the modifications	cations is present		
		pecifically nt to the		
	them/T C L/T A) individual's lifestyle lifestyle factors. individual	lual's lifestyle		
	Proposals link to lifestyle link to lifestyle factor	5.		
	Irait 3: link back Linkage between factor analysis, although analysis; proposals Proposi	sals systematically		
	to their lifestyle and results, how and factor analysis might lapses. there may be occasional demonstrate an and cor understanding of lifestyle	onsistently link to le factor analysis;		
	be present. significance. proposi	sals may be		
	improve them thorough	ised, demonstrating Igh understanding		
	of signi	ificance.		
		'		
	1. What do we already know about Helen Jones? Analyse info.			
	Physical Activity – None, sedentary job and lifestyle			
	Stress – increased workload and amount to complete			
	Smoking – 5 a day			
	Alcohol – 18 units			
	Health Tests			
	HR = Poor			
	BP = Pre high BP			
	טר – רוכ וווצוו טר	L		



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	BMI = Obese			
	Waist – Hip Ratio = High Risk			
	2. Decide a rank order of what lifestyle factors to improve.			
	Increasing PA, reducing alcohol consumption, quitting smoking, stress			
	management techniques			
	3. Start to look at strategies - what are suitable startegies for Helen Jones considering her barriers to change?			
	ner surreis to change.			
	Building a response - I DO, WE DO, YOU DO			
	See the teacher template			
	BUILDING A RESPONSE			
	Physical Activity Levels - Read through the first part of the response. Identify where the traits have been covered.			
	Stress Management - follow my example of how to			
	structure this part of the response. Copy into notes.			
	Quitting Smoking - work together with me to complete this section of the response			
	Reducing alcohol - respond to this section			
	independently			
1 711.	Share Mr Mann scenario with the group (Part A) only			
Lesson 7 How to	Share will waill scend to with the group (Part A) only		•	
produce notes for	What to include:			
question 2	How to answer the question - structure (see last lesson)			
	List of strategies including some brief details and +/-			
(Pupils can complete	3. List of barriers to change			
for homework if not	4. Possible rank order and why			
completed)	5. Choose potential strategies for Mr Mann and why			
Lesson 8			In take up to 35 minutes to complete the question.	<u> </u>
	SSS - feedback using marking criteria and ex	raminer report - SA and tea	acher marks - marks entered into class tracker	



BTEC Extended Certificate in Sport / Unit 2

Fitness Training and Programming for Health, Sport and Well-being

Learning Aim D - Fitness Training





Lesson/Learning Sequence	Intended Knowledge: Students will know that				Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
Lesson 1	Split the components of fitner	ess into physical ar	nd skills related co	omponents		•	
Components of Fitness	Whats the difference?						
	Task On your sheet, describe what you think each component is based on prior knowledge. Write down the definition from our specification. Identify sporting examples						
	Diamond 9 Task						
	Choosing one of the activities						
	Using <u>structured talk</u> - justify template to aid pupils	your rank order t	o the class - see tl	he sentence starter			
	Captain instigates and introduces the discussion and makes the first point. Team mate can add further points to what the captain has raised. Opponent can us these words to contrast and oppose the points made by the captain and team mate.	team mate and opponent can add	The captain, team mate and opponent can justify points made by giving examples and support their opinion by using these words.	Highlights – job is to conclude the discussion by summarising the main points made. These words will help start your summary.			
	First But	So that	For example	In conclusion			
	Second However	Due to	For instance	To conclude			
	Furthermore In contrast	Because	For this reason	In summary			
	Moreover Conversely	Consequently	Particularly	Ultimately			
	In addition On the contrary	Therefore	Significantly	Lastly			
	Equally On the other hand	In the event of	In other words	Finally			
	Likewise Nevertheless	As a result	Notably	In short			
Lesson 2	Task - pupils to complete page 1 c Their own MHR = 220 - AGE		of training worksh	eet', including:	Threshold	•	
Aerobic Training	Training zones - names	— 1 V 11 11 1					
	% of Maximum heart rate (N				Training zone		
a. Thresholds of	Purpose of the training zone Punils work out their own training zone				Ü		
Training	Pupils work out their own tra	airiing zone in opm	ı		Maximum heart rate		
	Training Zones are the intensity in Maximum heart rate (MHR) 220-A		exercise to impro	ve fitness#			



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
Ecosony Economis Sequence	· · · · · · · · · · · · · · · · · · ·	Tiered Vocabulary		ASSESSIMENT
	Students will know that		In order to know this students, need to already know that	
	Pupils can use the text book to help them			
	The same same same same same same same sam			
	Warm up / cool down training zone - 50% MHR - mainly unfit individuals, new to training			
	Activity recovery training zone - 60% of MHR - useful to aid in recovery, removing waste			
	, , ,			
	products, next step to those new to training			
	Fat burning zone - 60 - 70% of MHR - athletes training for long distances and fat burning			
	management			
	Aerobic fitness zone - 70 - 80% of MHR - development of aerobic endurance / suitable for			
	trained athletes			
	Target heart rate - 60 - 75% of MHR - greatest benefit for cardiovascular health			
	Peak performance zone - 80 - 90% of MHR - highest zone of cardiovascular training, geared			
	towards competitive sport and improving speed			
	Anaerobic Threshold - 90 - 100% of MHR - this is the point that you can no longer meet			
	, , , , , , , , , , , , , , , , , , , ,			
	aerobic requirements, so the body uses anaerobic systems. Training at this level is only			
	suitable for advanced athletes			
	Dans 2 Analy Double would be released by a community to the following of the first			
	Page 2 task- Pupils need to select the appropriate training zone for individuals depending			
	on the type of fitness they require and what they want to improve.			
	Explain which training zone you would suggest the following individuals train within:			
	a this to a second by the seco			
	Helen Jones: 48-year-old who needs to lose weight, does no physical activity.			
	22-year-old athlete starting training again after a pulled hamstring			
	19-year-old semi-pro footballer training regularly wanting to improve their speed			
	Mo Farah (38yrs) training for a marathon			
	Member of a running club (55yrs) training as a hobby			
	61-year-old who was obese but is still trying to lose weight and gain more fitness			
	or-year-old who was obese but is still trying to lose weight and gain more intress			
	Pupils need to give the % of MHR and training zone identified for each individual			
	above			
1	Startor activity			
Lesson 3	Starter activity		•	
	What is the equation for calculating a person's maximum heart rate?			
1	Can you calculate your own warm up/cool down zone?			
Aerobic Endurance				
	Can you calculate Mr Langford's Target Heart Rate Zone? I am 40 years old			
b. Methods of aerobic	Aerobic Endurance Training			
training	Continuous Training			
	Fartlek Training			
	Interval Training			
	Circuit Training			
	Remember that your intensity levels should be in the training zone suitable for the			
	individual's sport/ability			
	marriada: a sporty ability			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	The Sutton Aca	Assessment
Lesson/Learning Sequence	· · · · · · · · · · · · · · · · · · ·	Tiered Vocabulary	_		Assessificit
	Students will know that		In order to know this students, need to already know that		
	What you need to know for each one:				
	Characteristics – what the training involves, facts about the method				
	Example of Sessions – the type of exercise e.g. running, cycling and what it			ļ	
	involves (how FITT is used – timings, intensity)			ļ	
	Equipment/Location – what equipment may be needed and where could a				
	session take place			ļ	
	Advantages – the good points about the method, reasons for choosing it				
	Disadvantages - the bad points about the method, reasons you would avoid it				
				ļ	
	Continuous training			ļ	
	Continuous Training is where you keep doing the same type of exercise without			ļ	
	having a rest.				
	 The exercise needs to last for 20 minutes or longer. 				
	 You need to keep going at the same steady pace. 				
	The intensity is moderate (medium). This means you don't go too fast. 70%				
	VO2 Max				
	You can do this method by either running, cycling or swimming				
	It is the easiest to perform so good for beginners and burns fat so also good for				
	losing weight.				
	It can get boring though as you are doing the same thing for a long time.			ļ	
	- It can get borning though as you are doing the same thing for a long time.			ļ	
	Fartlek Training			ļ	
	Fartlek training involves changes in intensity.				
	There are no rest periods within this method.				
	You can change the intensity of training by:			ļ	
	Changing the speed (e.g. fast, moderate and slow paces).				
	Changing the type or steepness of the ground for example:				
	Flat surfaces, grassy surfaces, soft sand (Changing terrain)				
	Intensity can be increased by using equipment such as:			ļ	
	Weights, weighted backpack, harness				
	Example sessions: walk for one minute, run for one minute, sprint for 30 seconds. Repeat			ļ	
	this 10 times			ļ	
	Example sessions : Sprint up the hill, run along the path, walk down the hill. Repeat this 10			ļ	
	times.			ļ	
				· ·	
	Fartlek training is good because it can be made easy or hard to match your			ļ	
	fitness level.			ļ	
	You can also use it in many different activities .			ļ	
	For example running, cycling, swimming and rowing.			ļ	
	Good for games players that need to change their speed during a game.			ļ	
	It can be hard to keep motivated to do the harder sections.			ļ	
	Coaches can't tell if you are trying your hardest in the difficult sections.			ļ	
	couches can't ten'n you are dying your nardest in the annealt sections.			l	
				ļ	
	Interval Training			ļ	
	Interval training is where you have a work period followed by a rest or recovery			ļ	
	period.			ļ	
	ρετίου.				



Itered Vocabulary In Knowledge: In order to know this students, need to already know that In the rest or recovery period you can sit down, stand still, walk or jog. To develop aerobic endurance you need to: Decrease the number of rest or recovery periods. Increase the exercise intensity. The intensity in the work period should be above 60% of Max HR. In this session can be adjusted to suit the individual (ability/sport) E.g. beginners could jog for one minute and walk for one minute. Experienced runners could run hard for 3 minutes and fast walk for one minute Minute Interval 1 - 5	Assessment
 In the work period you exercise hard for about 30 seconds to five minutes. In the rest or recovery period you can sit down, stand still, walk or jog. To develop aerobic endurance you need to: Decrease the number of rest or recovery periods. Increase the exercise intensity. The intensity in the work period should be above 60% of Max HR. This session can be adjusted to suit the individual (ability/sport) E.g. beginners could jog for one minute and walk for one minute. Experienced runners could run hard for 3 minutes and fast walk for one minute Minute Interval 1 5 Warm-Up 6 7 Interval 8 Recovery 9 10 Interval 11 Recovery 12 13 Interval 14 Recovery 15 16 Interval 17 Recovery 18 19 Interval 17 Recovery 18 19 Interval 1 Interval 1 Recovery 18 19 Interval 1 Interval 1 Recovery 1 Interval 1 Interval 1 Recovery 1 Interval 1	
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Minute Interval 1 5	
1 5	
8 Recovery 9 10 Interval 11 Recovery 12 13 Interval 14 Recovery 15 16 Interval 17 Recovery 1819 Interval	
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9 10	
11 Recovery 12 13 Interval 14 Recovery 15 16 Interval 17 Recovery 1819 Interval	
12 13	
14 Recovery 15 16 Interval 17 Recovery 1819 Interval	
15 16 Interval 17 Recovery 1819 Interval	
17 Recovery 1819 Interval	
1819 Interval	
20 Recovery	
2122 Interval	
2325 Recovery	
2530 Cool-down	
Circuit training	
In circuit training you do one exercise consecutively in a set order.	
Circuit training is used to develop aerobic endurance, muscular endurance and	
muscular strength.	
The type of fitness that it develops depends on which exercises you do.	
For example, to develop aerobic endurance you might do skipping, star jumps,	
shuttles and step ups.	
To develop strength you would use weights.	
You can also vary circuit training to change the intensity. You can vary:	
The number of stations (exercises).	
The time you spend doing each exercise.	
How long you rest for between stations.	
• The number of circuits.	
The number of circuits. The number of circuit training sessions you do in a week.	
Tod cult daupt d circuit to safe many abilities and sports (cult even include skins	
like shooting, dribbling)	
It can be motivating to perform to music and train with a group Put it can be motivating up to a catting up to the art of a put in a cat to the laboration and train with a data of a put in a cat to the laboration and train with a data of a put in a cat to the laboration and train with a data of a put in a cat to the laboration and train with a data of a put in a cat to the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group The state of the laboration and train with a group with	
But it can involve setting up lots of equipment which takes time	



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
Ecoson, Ecaning ocquence		rici ca vocabalary	_	, issessifient
	Students will know that		In order to know this students, need to already know that	
	Task			
	complete the templates attached to the homework			
	 Use bullet points to get the key facts about each method 			
	Try to give at least two examples of sessions			
	.,,			
Lesson 4	Starter:		•	
	Complete the Matching Methods worksheet			
	estriplicate the materials members			
Aerobic Endurance	 Self-assess and give a mark out of 12 adding any corrections 			
/ teroble Endarance				
	Extension Challenge			
c. Applying FITT				
c. Applying 1111	1. Which method would be the most appropriate for an 800m runner?			
	HINT: this is a middle-distance race lasting 2 laps of the track!			
	2. Explain your answers.			
	FITT Principle			
	FREQUENCY – how often you train, the number of sessions in a week e.g. 3	Frequency		
	•	,,		
	sessions a week			
	 INTENSITY – how hard you train, the effort you put in. Should be matched to 	Intensity		
	your fitness/training needs e.g. 60% of Max HR			
		Time		
		Time		
	within a session e.g. work and rest periods.			
	TYPE – the activity and method of training you do e.g. continuous training on a	Type		
	treadmill.	- 7		
	 To improve fitness you must 'Overload' your body 			
	 'Overload is an increased stress or load placed on the body for training 	Overload		
	adaptations to take place'.			
	 FREQUENCY can be increased over time and you can choose the best TYPE of 			
	training you do BUT			
	INTENSITY and TIME are the key principles needed to really achieve OVERLOAD			
	in tensity and time are the key principles needed to really achieve overload			
	<u>Task</u> - Complete the FITT Principle page of your 'Applying FITT' worksheets			
	Applying Overload/FITT			
	Realistic starting point			
	Make gradual increases in overload (INTENSITY/TIME)			
	Don't do too much too soon (progressive)			
	<u>Task</u>			
	Complete the Apply the FITT Principle activities on your worksheet			
	 Make sure you complete one for each of the methods of Aerobic Training 			
	- Continuous			
	- Interval			
	- Fartlek			
	- Circuit			
	Choose a Type and Location for the session			
	 Decide what the Intensity and Time should be in Week 1 			
	Show how you would apply appropriate Overload in Week 2			
	Show how you would apply appropriate Overload in week 2			



			ademy	
Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that	,	In order to know this students, need to already know that	
			III order to know this students, need to direday know that	
	Starter activity			
Lesson 5	Knowledge retrieval activity			
1 23333 3	Complete the components of fitness tables to show what you have			
				1
Aerobic Endurance	remembered			
	Mark your answers using the definitions sheet			
	Make any improvements required			
d. Aerobic circuit				
training	Cinquit training			
training	<u>Circuit training</u>			
	Perform exercises at stations one after the other			1
	 Similar to interval training you work then rest throughout the session 			
	You can develop a range of fitness components depending on stations			
	performed			1
				1
	Adapt circuit for range of abilities and sports			
	 Motivating to perform to music and train with a group 			
	Can involve setting up lots of equipment which takes time			1
	You can also vary circuit training to change the intensity to achieve overload.			1
	, , , , , , , , , , , , , , , , , , , ,			1
	You can vary:			1
	Number of stations			1
	Work time			1
	Rest time			1
	Number of circuits			1
	Number of sessions			1
				1
	Applying FITT for circuit training		GCSE PE and BTEC Tech Award link – FITT principle covered	1
	FREQUENCY – how often you train		on both courses. Names, explanation of each of the	
	INTENSITY – how hard you train, the effort you put in			1
	TIME – how long you train for, the timings used within a session e.g. work and		principles covered	1
				1
	rest periods.			1
	TYPE – the activity and method of training you do e.g. continuous training on a			
	treadmill			
	Designing an effective circuit			1
	Design a circuit training session to improve aerobic endurance for a someone			1
				1
	starting a training programme			1
	Select appropriate stations		GCSE PE and BTEC Tech Award link – FITT principle covered	1
	Remember they should raise the heart rate not focus on a muscle group		on both courses. Names, explanation of each of the	1
	Apply FITT principle to 3 future sessions		· ·	1
			principles covered and links to types of training and how it	
	If extra stations added, state the new stations		would be applied	
				1
				1
				1
				1
				1
				1



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Aerobic Endurance: Circuit Training Station Name Picture Station Name Picture Station Name Picture Station Name Picture		ABCD of PE, GCSE PE and BTEC Tech Award in Sport link – students design their own circuit and vary the muscle groups used so fatigue does not set in early in the workout	
	Justification of the FITT principle • Justify how you applied the FITT principle throughout the programme to achieve overload • I have given you the details of the first session and justified why I have chosen the intensity and times. • Remember: overload should push them harder but be gradual. • You don't need to make everything harder about the session but it needs to make them work so they progress.		GCSE PE and BTEC Tech Award link – FITT principle covered on both courses. Names, explanation of each of the principles covered and links to types of training and how it would be applied	
	Aerobic endurance method con:	solidation lesson - if neede	d	
	Decre combined described	<u> </u>	T	
Lesson 6 Aerobic Endurance	Recap - aerobic endurance methods 1. Continuous – steady pace, no rest, long period 2. Interval – work followed by rest period, repeated a set number of times 3. Fartlek – exercise at different intensities by changing speed or terrain, no rest		GCSE PE and BTEC Tech Award link – all methods covered on both courses. Names, explanation of the types of	
e. Planning a series of lessons	 involved Circuit – stations performed at high intensity consecutively with rest in between Perform at the correct training zone for ability and/or sport. 		training	
	Recap - FITT principle application FREQUENCY – how often you train, the number of sessions in a week e.g. 3 sessions a week INTENSITY – how hard you train, the effort you put in. Should be matched to your fitness/training needs e.g. 60% of Max HR TIME – how long you train for, the length of each session. Or the timings used within a session e.g. work and rest periods. TYPE – the activity and method of training you do e.g. continuous training on a treadmill.		GCSE PE and BTEC Tech Award link – FITT principle covered on both courses. Names, explanation of each of the principles covered	



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Applying the FITT principle to a series of sessions			
	<u> </u>			
	First week must show a realistic starting point			
	Make gradual increases in overload		GCSE PE and BTEC Tech Award link – FITT principle covered	
			on both courses. Names, explanation of each of the	
	Don't do too mach too soon		·	
	For example, the following week:		principles covered	
	• + 5% Max HR intensity			
	If performed over a number of minutes: + 5 mins			
	If performed over a number of seconds: + 10secs work			
	- 10secs rest			
	+ 1 extra circuit station			
	One extra session every week or fortnight			
	Using the Helen Jones scenario - share Part A again			
	What were her physical activity levels?			
	What was her job?			
	How long did she work each day?			
	<u> </u>			
	How did she travel to work?			
	Did she have a lunch break?			
	Did she has any health concerns?			
	Planning Week 1, 3 and 6 of the training programme (Q5 in exam)			
	Consider the following for Week 1:			
	Frequency – When Helen will train?			
	What will her starting intensity be?			
	How much time will she spend exercising?			
	What type of training would be suitable?			
	, , , , , , , , , , , , , , , , , , ,			
	Suggestions for Week 1:			
	Frequency – On way to/from work, lunch, weekends, evenings			
	Intensity – 50% MHR			
	Time – 150mins spread out (20min sessions) The second stress of th			
	Type – continuous walking, basic home circuit, very basic core strength			
	exercises			
	Consider the following for Week 3 and 6:			
	What overload will be applied?			
	How much overload is appropriate?			
	Don't forget Week 2, 4 and 5 will have taken place too			
	Could you vary the training methods?			
	, , , , , , , , , , , , , , , , , , , ,			
	Task - Plan week 1, 3, 6 of training			
	Use the templates to plan your training programme			
	You have space to write some notes before you plan			
	Remember they can have rest time too!			



Lesson/Learning Sequence	Intended I	(nowledge	e:							Tiered Vocabulary	Prior Knowledge:	Assessment
	Students v										In order to know this students, need to already know that	
Lesson/Learning Sequence	Justification	Week 1 Physical Activity Morning Afternoon	Mon State FITT Pri				Fri lelen Jones' tr eek 3		sun nme Week 6	Tiered Vocabulary		Assessment
	(mos	Time gth of session or time) Type t appropriate me start easy)	ethods,	Helen J	ones wee	ek 1, 3 ar	nd 6 with	the class	s - SSS, g			
						Planning	zwoak 1	2 and 6	training .	programme design) consolida	tion if pooded	



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Lesson 7	What sports performers would include flexibility sessions in their training?			
Flexibility training Methods and Types of	Main Methods Static stretching – performing a stationary stretch Dynamic stretching – performing a stretch with movement	Static	GCSE PE – GCSE PE pupils and BTEC Tech Award in sport pupils know and understand that the definition of flexibility is 'the range'	
Flexibility training	Proprioceptive Neuromuscular Facilitation – partner helps you stretch further	Dynamic	of movement around a joint' They would also know that the fitness test for flexibility is the sit and reach test (lower back and	
, 5	each time Principles of flexibility training • Aim to increase range of motion (ROM) and reduces injuries	PNF	hamstrings) GCSE PE pupils know that stretching during a warm up and cool down will help improve flexibility and reduce the risk of injury.	
	 Overload muscle by stretching beyond usual position Need to target muscles/joint that needs improving Do not exceed tolerance level as injuries can occur To improve flexibility, increase the time of the stretch and the reps completed Best completed at the end of training when muscles are warm or after aerobic training 	Flexibility		
	Types of stretching			
	Maintenance Stretching Purpose: returning worked muscles to normal length, maintaining general flexibility When: after exercise during a cool down How long: 10-15 seconds Maintenance stretching can reduce the risk of injury, reduce muscle tension and improve coordination of muscles.	Maintenance		
	 Developmental Stretching Purpose: improve muscle flexibility/length and ROM When: after exercise How long: 6-10 seconds initially, then repeat for a further 20-30 seconds Developmental stretching primarily improves flexibility and increases the range of movement but can also improve posture and general well-being. 	Developmental		
	Over to you - what do you think? (Structured talk opportunity)			
	Discuss what type of stretches and examples of stretches the following individuals would complete: 1. A footballer 20mins before kick off 2. A member of a running club who trains for fun 3. A gymnast in training for competition 1. A footballer 20mins before kick off - Pre activity stretches 2. A member of a running club who trains for fun - Maintenance stretches 3. A gymnast in training for competition - Developmental stretches			



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Lesson/Learning Sequence	Intended Knowledge: Students will know that		Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
	Controlled and slow Used to lengthen muscles to impri- Stretch and hold still in one position.		Static		
	ACTIVE	PASSIVE	Active		
	-Perform individually -Use own muscles to hold the position. -Increases ROM and functional mobility	-Assisted stretching -Use someone else or an object to help hold the position. -One of the safest methods and helps with relaxation	Passive		
	· · · · · · · · · · · · · · · · · · ·		Dynamic		
	 contraction) The performer relaxes the muscle The partner helps to stretch the m Muscles have a stretch reflex that 	lp you with this type of stretching. le as far as it can go. in that position. the partner for 6-10 seconds (Isometric uscle a little bit more. stops them being stretched too far reflex and then the muscle can stretch of stretching	PNF (Proprioceptive Neuromuscular Facilitation)		
	EQUIPMENT REQUIRED FOR STRETCHING A range of equipment can be used Some equipment can replace the				



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	This can allow an individual to perform a bigger range of stretches on their own			
	 Improves ROM but also adds variety to a flexibility session to reduce boredom. 			
	- Towel - Mat			
	- Band			
	Task			
	 Complete the set of questions to get your mark (Flexibility training questions) 			
	Green pen your work, comparing to the answers I will give you.			
	EXTENSION TASK			
	Plan a flexibility session for a netball player			
	Ensure you answer all questions on the sheet and upload completed sessions to			
	Satchel One.			
Lesson 8	Muscular Strength Training			
	Can be performed using the following methods:	Strength	GCSE PE and BTEC Tech award in Sport students link – know the	
Strength Training	Resistance machines		definition of muscular strength is 'the ability of muscles to exert a	
	2. Free weights		force over a short period of time'.	
Purpose of it	3. Circuit training		Torce over a short period of time.	
Turpose of it	4. Medicine balls			
Dringinles of it				
Principles of it	5. Core stability training			
Pyramid sets	What you need to know:			
ryrainiu sets	·			
	1. Purpose of training			
	2. Principles of strength training - reps, sets, rest			
	3. Example of Sessions – Pyramid sets		GCSE PE and BTEC Tech award in Sport students link – know that	
	4. Type of exercises e.g. shoulder press, dead lifts, bench press		weight training consists of using resistance machines, dumbbells,	
	5. Equipment – what equipment may be needed and where could a session take		barbells, medicine balls, resistance bands etc. They know that the	
	place		long-term adaptations that take place due to weight training are:	
	6. Advantages/Disadvantages – of the types of strength training used -		 Increased muscular strength 	
	(resistance machines vs free weights)		 Increased muscle size (muscular hypertrophy) 	
			Increased muscular endurance	
	Purpose of strength training		Increased flexibility	
	Increases muscle tone (definition of muscles)	Muscle tone	•	
	Increases muscular hypertrophy (muscle fibres increase in size)	Muscular hypertrophy	 Stronger tendons 	
		Widscalar Hypertrophly		
	Most beneficial for sports like weight lifting, throwers, sprinters, rugby but any where evaluative managements are performed.	Donoficial		
	where explosive movements are performed	Beneficial	GCSE PE and BTEC Tech award in Sport students link – know	
	Beneficial - worth having or wanting		that to work out how much to lift is a % of your 1RM.	
	Principles of strength training	<u> </u>	 GCSE PE and BTEC Tech award in Sport students link – 	
	 High weight, low repetitions, high sets 	Repetitions / sets	heavier weights/load and fewer repetitions increases	
	Fast twitch muscle fibres are targeted (type IIa and type IIx) for powerful	Fast twitch muscle	muscular hypertrophy and strength	
	contractions but tire quickly	fibres	,, ,,	
	 Find one repetition maximum first (1RM) = max amount of weight lifted in one 			
	attempt	1RM		
	Then use this to work out the correct % of weight you should lift			
	50-90% of 1RM depending on fitness levels/experience			
			I .	



Lesson/Learning Sequence	Intended Knowled	go:			Tiered Vocabulary	Prior Knowledge:	ton Acad	Assessment
Lesson/Learning Sequence	Students will know that				Hered Vocabulary	In order to know this students, need to already know that	<i>'</i>	- Sessificiti
	Reps and sets	-that				in order to know this students, need to direday know that		
	• 6-10 reps = 1 set							
			act) = 5-8 catc			GCSE PE and BTEC Tech award in Sport students link –l.	iahtar	
	 Larger muscles (e.g. legs, chest) = 5-8 sets Smaller muscles (arms, lower leg) = 4-6 sets 							
						weights/load and higher numbers of repetitions improvemuscular endurance	ves	
	Rest between sets • 2-4 minutes					muscular endurance		
	2 Tillinates							
	Order of exercises Larger r	muscles first						
		r muscles misc						
			should these be last?					
	- Core/ai		silouid triese be last:					
		Order Muscle group	s Muscles					
		1 Chest	Pectorals					
		2 Back	Latissimus <u>dorsi</u> , trapezius					
		3 Legs	Quadriceps, hamstrings, glutes, calves					
		4 Shoulders	Deltoids					
		5 Arms	Biceps, triceps					
		6 Core	Abdominals, erectus spinae					
	Work in Start at muscles As they again R	s get fatigued (tired) Repetitions		of				



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Lesson/Learning Sequence	Intended Knowledge:				Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that	12-15 5 10-12 7 8-10 8 4-6 9 8-10 8	Weight (1RM = 80kg)	Rest 2 mins		In order to know this students, need to already know that	
Lesson 8	Task Complete the note include a comple	es sheet for Stre ted diagram expl		2 mins	formed		
Strength Training 2 Free weights v Machines Examples of exercises	Muscular strength and muscular endurance					 GCSE PE and BTEC Tech award in Sport students link – know that weight training consists of using resistance machines, dumbbells, barbells, medicine balls, resistance bands etc. They know that the long-term adaptations that take place due to weight training are: Increased muscular strength Increased muscle size (muscular hypertrophy) Increased muscular endurance 	
(Opportunity for practical lesson - using free weights)	 Bar bells, dumb bells Provide constant resistance during the movement Increase strength quickly Increase range of movement allowed Can focus on more than one muscle Increased risk of injury For more advanced performers RESISTANCE MACHINES EQUIPMENT Machine in fixed position 0-100kg can be lifted Gyms usually have large range of machines Easier to use so safer for beginners Focus on one muscle only Advantages and disadvantages					 Increased flexibility Stronger tendons GCSE PE and BTEC Tech award in Sport students link – know that to work out how much to lift is a % of your 1RM. GCSE PE and BTEC Tech award in Sport students link – heavier weights/load and fewer repetitions increases muscular hypertrophy and strength 	



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Task			
	Complete the notes sheet for free weights vs resistance machines			
	Question:			
	Would you recommend a beginner to use free weights or resistance machines? Explain			
	your answer.			
Lesson 9	POWER CRAB			
	C - Co-ordination			
Skill Related Components of	R - Reaction Time			
Fitness	A - Agility			
	B- Balance			
POWER CRAB!				
1 GWEN GIVE	Power - The ability to produce a maximal force in the shortest period of time possible.	Power		
Dawer training mathods	Prower - The ability to produce a maximal force in the shortest period of time possible.	rowei		
Power training methods				
_	Coordination - The ability to control movement of two or more body parts, smoothly and	Co-ordination		
Co-ordination training	efficiently to perform a motor task.		GCSE PE and BTEC Tech award in Sport students link – pupils know	
methods			simplified definitions of power, co-ordination, reaction time,	
	Reaction Time - The time taken for a sports performer to respond to a stimulus and the	Reaction Time	agility, and balance. These will need to be checked and reinforced	
Reaction time training	initiation of their response.		as they maybe slightly different due to the OCR and Pearson	
methods	·		specifications using different wording.	
	Agility - The ability of a sports performer to quickly and precisely move or change direction	Agility	Specifications asing affective wording.	
Agility training methods	without losing balance or time.	Agincy		
Aginty training metrious	Without losing balance of time.			
Balance training methods	Balance - Static and dynamic balance, the ability to maintain centre of mass over a base of	Balance		
	support.			
	These components are more likely to be including in the training programme of a			
	sports person as opposed to someone wanting to improve their health.			
	When creating a training programme, you should use the training method(s) that will			
	help to achieve your goal.			
	Help to achieve your goal.			
	Each of the following training methods is relevant to one or more components of			
	<u>skill-related</u> fitness and will help to develop them accordingly.			
	TASK:			
	You have a range of activities that are used to train skill related components.			
	Write next to each which component it will improve			
	Kneeling sprint - Power	Box Jump		
	Box jumps - Power	DOX 3 dilip		
	Alternate hand ball toss - Co-ordination			
	Stork stand - Balance			
	Ladders - Agility			
	Medicine ball throw - Power	Pilates		
	Pilates - Balance			
	Jump rope training - Power			
	1	J		



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Wobble board - Balance		,,	
	Hurdles - Power			
	Ball drop and catch - Reaction Time	Yoga		
	Push up with clap - Power			
	One legged squat - Balance			
	Reaction ball - Reaction Time			
	Yoga - Balance			
	Toga - balance			
	Power training methods			
	Principles: Stretches muscle eccentrically before a powerful concentric contraction		GCSE PE link – pupils know that a concentric contraction involves	
	(explosive action)		the muscle contracting and changing length (e.g. a bicep curl –	
	Methods:		the bicep changes length during the movement of a bicep curl)	
			the bicep changes length during the movement of a bicep curry	
	Tryometries - movements that are explosive and repeated. Should always replicate			
	the specific movements to the sport.			
	• Equipment: ladders, cones, jumps ropes, medicine ball, hurdles, benches.			
	Plyometrics			
		Dhamatrias		
	• It is important to careful with this kind of training as it can make your muscles sore.	Plyometrics		
	In the exercises the sports performer uses maximal force (as much power as			
	possible).			
	This force is needed to lengthen and then quickly shorten the muscle. For example, in			
	the box jumping exercise below:			
	the box jumping exercise below.			
	Jumping off The working muscle lengthers when the sports performer lands. This an eccentric action. Jumping up in the air The working muscle has to shorten quickly as the sports performer lands. This an eccentric action. This is a concentric	Concentric	GCSE PE link — pupils know that plyometrics is a form of (interval) training to improve power for explosive ANAEROBIC activities. Pupils know that movements such as hopping, bounding and jumping (depth jumps) actions are used to improve power.	
	action.	Concentric		
	Who would use plyometrics?			
	List sports that require a sudden burst of power and would benefit from this training	Contraction		
	Would they focus on upper or lower body exercises?			
	- vvould tiley locus on upper or lower body exercises?			
	Designing a plyometrics Session		ARCD of RE link numils ownerion and also matrices and interest in VO	
	Using the resources and Youtube clip, design a plyometrics session that includes:		ABCD of PE link – pupils experienced plyometrics activities in Y9 –	
	Name of exercise		pupils know that rest is required after performing plyometric	
	Order of exercise completion		exercises.	
	How many reps/sets should be completed			
	Rest time between sets			
	https://www.youtube.com/watch?v=dvggf9hPwtM	Plyometrics		
		i iyometiica		
	CHALLENGE ACTIVITY			
	Add the following to your plan:			
	Sport designed for			
	Sport designed for			
	I .	l	1	



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
			In order to know this students, need to directly know thatin	
	Show how overload could be achieved in future sessions			
	SUPER CHALLENGE ACTIVITY			
	How could your session be adapted for a different sport?			
	The November Section Section and a difference sports			
	Co-ordination training methods	Co-ordination		
			 ABCD of PE link – pupils encouraged to prepare for KS3 	
	Principles: Exercises which involve the use of two or more body parts together.		assessments to practice alternate hand ball toss as it'll prepare	
	Methods:		pupils for taking the test. Pupils also giving task of 'keepy ups' in	
	Sport specific activities for example, racquet ariis, jugging and ball catering.		football unit – pupils shown how to perform them and how to	
	Equipment: Sport specific equipment e.g. tennis ball.		improve co-ordination for football.	
	Reaction time training methods	Reaction time		
	Principles: Training to initiate a response in the quickest time possible.			
			1000 (000) () () () ()	
	Methods: Reaction drills- initiating a response to an external stimulus e.g. reaction		ABCD of PE link – 'rats/rabbits reaction time games, sprint start	
	ball, ball and drop, kneeling to sprint.		drills are examples of reaction time drills we perform in KS3.	
	• Equipment : Stopwatch, whistle, visual stimulus, auditory stimulus, reaction ball.			
	Agility training mothods			
	Agility training methods			
	Principles: Exercises that will involve changing the body position quickly and with	Agility	 ABCD of PE link – in KS3 pupils do ladders warm ups when doing 	
	control.		hockey unit (sticks use as the SAQ ladder. Drills are delivered and	
	Methods: SAQ- speed, agility and quickness. Often conducted with the use of ladders.		developed throughout the hockey unit. SAQ drills are also	
	Sport specific drills- involving a change of direction.		_ · · · · · · · · · · · · · · · · · ·	
			delivered when teaching athletics warm ups (e.g. A-Skips, B-Skips,	
	• Equipment: SAQ ladders, markers, cones, sport specific equipment.		split steps, hollow sprints, bounding).	
	Balance training methods	Balance		
	• Methods:			
		Static		
	Static Balance- exercises focused on retaining the centre of mass above the base of	Static		
	support when stationary (can use a stable surface such as the floor for this).			
	Dynamic balance- focus on retaining the centre of mass above the base of support			
	when moving (can use unstable surfaces such as a balance board for this)	Dynamic		
	Equipment: Stable and unstable surfaces.	'		
	- Lyulpinent. Stable and unstable surfaces.			
	Training methods for skill related fitness			
	• <u>TASK:</u>			
	Complete the templates to create fact sheets about training methods for Co -			
	ordination, Reaction Time, Agility and Balance.			
	Use your text book and the revision guide			
	REMEMBER: the key facts are your bread and butter!!			
	CHALLENGE TASK			
	(finish for homework):			
	You have been asked to work with a local Basketball club who play in the National			
	League and are looking to improve their skill related fitness.			
	Design a Circuit Training session that focuses on the different components of skill			
	related fitness.			
	The session must include:			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment				
	Students will know that		In order to know this students, need to already know that					
	Stations for each of the 5 skill related components							
	Description of station (what players must do)							
	Details of reps to be completed/work time at stations							
	Appropriate diagrams to guide players							
	The session should last at least 20 minutes							
	SUPER CHALLENGE TASK!							
	Justify why each station will help the basketball players' performance. Use examples from							
	the game to support your opinions							
	SRF Circuit task and consolid	lation lesson if needed						
	Prepare notes for Helen Jon	es Q4 (out of 8 marks)						
	Assessment lesson - Attempt Q4 - Helen Jones scenario							
	Pupils have 30 minutes to produce answer to Helen Jones scenario							
	Examiner report and feedback session - last 30 minutes - mark each o	ther's work - teacher asse	sses - marks entered into class tracker					



BTEC Extended Certificate in Sport / Unit 2

Fitness Training and Programming for Health, Sport and Well-being

Learning Aim E - Training programme design



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Lesson 1	Basic principles of training			
Principles of training	To progress and overload the body appropriately, use the FITT principle to increase the demand on the body	FREQUENCY	BTEC Tech award in Sport and GCSE PE link – FITT principle taught in Y11 on both courses	
	FREQUENCY – how often you train (beginners start at 3 times a week, progress to 5 sessions)	INTENSITY		
	 INTENSITY – the effort needed to complete the activity (e.g. %HR, weight lifted, reps) TIME/DURATION – how long the session is 	TIME (DURATION)		
	TYPE – what methods of training are used	TYPE		
	Principles of training			
	SPECIFICITY – plan for what you want to improve (component of fitness, muscle groups, sporting action)	SPECIFICTY	BTEC Tech award in Sport and GCSE PE link – definitions of principles of training delivered on both courses. Pupils how these	
	PROGRESSION – making training gradually harder - not too little (no improvement - PLATEAU) or too much (injuries) but challenging –	PROGRESSION	terms	
	OVERLOAD – pushing the body harder than usual to gain positive training results (use FITT to achieve this)	OVERLOAD		
	REVERSIBILITY – losing fitness gains due to stopping training. Aim to not 'detrain' and revert back to previous levels of fitness (injury/illness/lack of motivation, not enough)	REVERSIBILITY		
	overload)			
	Structured talk and stop and jot opportunity			
	Q – What would happen to fitness levels if someone maintained a programme but didn't apply overload?			
	REST & RECOVERY – give the body enough rest so it can recover before next session. Include rest days and spread sessions out throughout the week.	RECOVERY		
	ADAPTATION – this happens during recovery periods. The muscles start to get used to	ADAPTATION		
	the demands of exercise so it can cope with more next time. The muscles repair themselves but become stronger each time. This is when strength/muscular			
	endurance is improved and also the heart and lungs are stronger/larger to transport more O2 around the body, improving aerobic endurance.			
	TEDIUM/VARIATION – vary the training you do to prevent boredom	TEDIUM		
	INDIVIDUAL NEEDS – tailor the training programme for the individual as everyone is different. Depends on gender, age, fitness levels and training goals.	VARIATION		
	Structured talk and stop and jot opportunity			
	Q – What would be the similarities and differences in training for two people training for a			
	marathon where one person is a beginner running for charity and the other is an			
	experienced runner competing for a club?			



Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
Lesson 2	Recap questions			
Periodisation	 Name 6 lifestyle factors What is the maximum units recommended for consumption of alcohol per week? What are the 4 barriers to change? Names all 11 components of fitness What components of fitness can be improved using circuit training? 			
To learn about periodisation and how it is used when designing a training programme.	 What is Periodisation? A training programme with a structured cycle Organised in periods and cycles of training Each will have a specific aim or objective within the overall training plan The main purpose is to achieve peak performance at the right time e.g. in time for competition Prevents over training injuries, boredom and therefore boosts motivation so peak performance is achieved 	PERIODISATION PEAK PERFORMANCE		
	Main phases of a full cycle Off season – transition or recovery period from previous season, individual is not competing, need to maintain fitness, fitness more likely to drop during this time.	OFF SEASON		
	Pre-season – preparation phase before the season starts, chance to build back up to full fitness. Training often focusses on physical components of fitness first e.g. aerobic fitness, before the more sports specific goals as the competition approaches.	PRE SEASON		
	In season – competition period aiming for peak performance	IN SEASON		
	Different cycles in a programme MACROCYCLE • First layer of cycle over the largest time • Phase lasts between 1 year (e.g. Footballers) and 4 years (e.g. Olympic athletes)	MACROCYCLE		
	Phase lasting about 4-24 weeks which would be part of a macrocycle. Controlled with work:rest ratios e.g. a ratio of 3:1 would mean 3 weeks of full training followed by 1 active rest week. This would be repeated but intensity increased next time. Beginners = work:rest ratio of 2:1 Advanced = work:rest ratio of up to 6:1	MESOCYCLE		
	Phase usually lasting 1 week Individual sessions using FITT principle Should include appropriate warm up, main session and cool down each time Sometimes daily cycles of up to 3 sessions may be required for elite performers	MICROCYCLE		



Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment	
	Questions 1. What is the purpose of periodisation? 2. What are the three main cycles or phases used when planning for periodisation? 3. What are the shortest cycles called? 4. How long does a mesocycle usually last? 5. What is the average work:rest ratio when planning a mesocycle? 6. What type of activities may be included in an 'active rest week'? This diagram shows how periodisation is used for a trained individual: months nov dec jan feb mar apr may jun jul aug sep oct phases / 1 2 3 4 5 6 Pre-season In-season Off Season Use this to help you answer the questions on the following slide. Questions (based on previous slide example) 1. How long is the macrocycle? 2. What months of the year does the pre-season phase cover? 3. What will be different about the training goals in phase 1 and 2? 4. For a games player, what activities would you expect to see in each of these phases? 5. Why is it important to allow for a recovery month where the individual doesn't follow their training programme?		in older to know this students, need to directly know that		
	follow their training programme? 6. What are the risks involved during this recovery period?				



Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
	This individual has entered into their first Triathlon race which takes place in 6 months time. This is their first mesocycle: Bar Same Same			
Lesson 3 Applying the principles of training and periodisation	Remember the principles: They spell SPORTIA! Specificity (links to Type) Progression Overload (links to Frequency, Intensity, Time) Rest and recovery Tedium/Variation Individual needs Adaptation Don't forget Reversibility which we don't want to occur! TASK - complete the sheet 1) What principle of training has been applied in these scenarios?		 BTEC Tech award in Sport and GCSE PE link – definitions of principles of training delivered on both courses. (SPORT) Pupils how these terms. Extra terms pupils will need to learn and develop an understanding of are: Individual needs and adaptation 	



Accessment Timerdo Vocabulary Prior Chronologies Prior Chronologies Accessment Acces				The Sutton Academy	
2) Justify your answer as if you had designed the programme. This also includes the FITT principle. I've done an example to start you off. Task - Principles of training questions - complete the sheet Lesson 4 Alms, objectives and SMARTER Targets Alms, objectives and SMARTER Targets The two areas of the revision guide and 117 of the text book to answer the questions. The two areas of knowledge needed to answer the above are: 1. 2. The main principle of training associated with setting individual goals and meeting personal needs is Goal setting benefits on performance include: 1. 2. ACHEVEARE I 2. ACHEVEARE I 3. ACHEVEARE I 4. CHARVEARE I 4. CHARVEARE I 5. COMPLETION Alms are what you intend to schieve. Examples in training could be 1. CHARVEARE I 4. CHARVEARE I 5. COMPLETION Alms and objectives should be broken down further. Short I term goals time frame = Medium term goals time frame = Long term goals time frame = Complete the table on the sheet using the test book (p117) and the revision guide (p 80) Table two areas of knowledge part whole the charge goal part to a should be evaluated to see how it went or that it should be something you find exciting and medius of the extinction of the sweet of a should be evaluated to see how it went or that it should be something you find exciting and medius of the excitance of a starting you find exciting and medius of the excitance of the part of the excitance of the sweet is a starting you find exciting and medius of the excitance of the sweet is a starting you find exciting and medius of the excitance of the sweet is a starting you find exciting and medius of the excitance of the sweet is a starting you find exciting and medius of the excitance of the part of the excitance of the sweet is a starting you find exciting and medius of the excitance of the part of the excitance of the sweet is a starting you find exciting and medius of the excitance of the part of th	Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
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Use page 80 of the revision guide and 137 of the text book to answer the questions Alms, objectives and similar to be seen the sheet and similar programme are: 1. 1. 2.		2) Justify your answer as if you had designed the programme.			
Use page 80 of the revision guide and 137 of the text book to answer the questions Alms, objectives and similar to be seen the sheet and similar programme are: 1. 1. 2.		This also includes the FITT principle. I've done an example to start			
Lesson 4 Aims, objectives and 1. 2. The two areas of knowledge needed to answer the above are: 1. 2. The main principle of training associated with setting individual goals and meeting personal needs is Goal setting benefits on performance include: 1. 1. 2. Aims are what you intend to achieve. Examples in training could be 1. 2. Aims are what you intend to achieve. Examples in training could be 1. 3. Aims and objectives should be broken down further. Short term goals time frame = Medium term goals time frame = Long term goals time frame = Complete the table on the sheet using the test book (p117) and the revision guide (p 80) **RECORDED** **COSC PE link - SMART targets **COSC PE link -		· · ·			
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Aims, objectives and SMARTER Targets The two areas of knowledge needed to answer the above are: 1.	Lesson 4	Use page 80 of the revision guide and 117 of the text book to answer the questions			
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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment	
	Students will know that		In order to know this students, need to already know that		
	Students will know that		in order to know this students, need to direddy know that		
Lesson 5					
Lesson 3	Designing a programme				
					1
Destaular a tastata	Very more and halo main in language and another address that				
Designing a training	You must apply the principles of training throughout the				
programme	programme:				
programme					1
	BASIC PRINCIPLES ADDITIONAL PRINCIPLES				
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To learn about how to	TIME/DURATION				
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	Study the response that received 6 marks (full marks)				ı
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	riigiligit good examples of when you trink the principles of training have been				ı
	applied well (GREEN)				
	 Also highlight anything you may disagree with (RED) 				ı
	Make a note to show examples of when the principles are applied				
	make a note to show examples of when the principles are applied				
					ı
	Challenge Task				
	Annotate the programme to explain why				ı
	Compare the 3 weeks				
	- Compare the 2 weeks				
					1
	Share Mr Mann Scenario - Part A again				
	Design Week 1, 3 and 6 for Mr Mann				
	Make sure you consider all the principles of training when you design each week				ı
	Select methods that are specific to the individual				
	Include all necessary details for each session e.g. activity, time, intensity				
	(%MHR/%1RM/sets/reps/rest)				ı



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Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge:	Assessment	
Lesson 6 To learn how to justify a training programme.	Intended Knowledge: Students will know that Remember that Week 2, 4, 5 would be carried out too but don't have to be written Complete for homework - spend no longer than 30minutes completing this piece of work - print of sheet 1, 3 and 6 of Mr Mann's blank training programme Justifying the training programme - question 6 = 14 marks Justifying a Programme You must justify how you have applied the principles of training throughout the programme: BASIC PRINCIPLES REGUENCY INTERISITY TIME/DURATION TYPE SMARTER TARGETS Specific Measurable Achievable Realistic Time Bound Exciting Recorded Addration Addration Addration Addration Addration Addration Addration Reversaulty RESS But making it specific to the individual will boost your marks even more Relate your programme back to the person's: Goals Fitness levels Lifestyle	Tiered Vocabulary			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment	
	Students will know that		In order to know this students, need to already know that		ľ
	Task				•
	1. Read the full mark response for Helen Jones				
	2. Highlight when a principle of training / SMARTER target has been justified				
	Task - complete the 'Justifying a Training Programme' sheet				
	3. You have 35 mins to justify your programme for Mr Mann				
	4. Tick off the principles as you justify them.				
	Designing a Training Programme - 20mins				
	THE QUESTION TOP TIPS				
	Question 5: Design Week 1, 3 and 6 of a **Split Into AM and PM sessions **Keep it to the facts — no sentences **Include sequence shall be captioner method farthisty & intensity, timines)				
	marks Consider the individual's daily life (time at work, lunch break, commitments)				
	Specific to individual's fitness Specific to individual's fitness Show gradual progressions (get week 1 right!)				
	requirements – comps of ✓ Remember Week 2, 4 and 5 will happen ✓ Include a range of suitable sessions over the 6 weeks				
	Make sure all fitness goals are covered Thorough understanding of all ✓ Ensure the training programme is SMARTER				
	principles of training				
	Suits the individual's lifestyle Wednery WEASURABLE				
	ANOVOCIAL MEEDS OVERCOAD ACHIEVABLE				
	F.I.T.T Principle Additional R REALISTIC				
	AMAPIATION AVERGALITY RECORDED				
	Frequency Intensity Time Type				
	Justifying a Training Programme – 30mins				
	THEOLEGICAL				
	THE QUESTION TOP TIPS				
	Question 6: Justify the training ✓ Recap individual's fitness goals again programme design - 14 marks (HIGHEST) ✓ Justify how you applied each principle of training and FITT				
	Value() Value() Value() Value() Value()				
	Justify how you have applied each Justify how it meets the SMARTER Targets				
	principle of training				
	Justify why it meets the training requirements of the individual ✓ Explain how have you planned for periodisation (if appropriate)				
	Justify how you have made it Could write about each week in turn or each principle in turn.				
	SMARTER				
	POSSIBLE SENTENCE STARTERS				
	- The individual's fitness goals were Week 1 involvedbut to reduce boredom by Week 3 I added				
	- I applied the principle of by This was relevant to their fitness goals because				
	- The programme started withbut by Week 6 this progressed to I considered periodisation by				
	Attained OC Could be Mankford Country		1		
	Attempt Q6 for the Mr Mann Scenar	rio - 30 minutes to comple	ete it		

Attempt Q6 for the Mr Mann Scenario - 30 minutes to complete it

Other 30 mins - use examiner report from Mr Mann scenario to help self assess / peer assess with green pen - teacher marks and inputs scores into class tracker



Knowledge Rich Curriculum Plan

BTEC Extended Certificate in Sport / Unit 2

Fitness Training and Programming for Health, Sport and Well-being

Learning Aim C - Understand programme-related nutritional needs



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
Lesson 1	* What are the components of the Eat Well Plate?			
LO – To learn about nutritional common terminology	C1 - Common terminology Use pages 84 -87 in the text book and 58-59 of the revision guide Create a 'Glossary of Terms' for all common terminology Produce on computer so you can use it when you make preparation notes Copy out the definition from the book. Then add further explanation in your own words. Use colours and other tools to make the terms stand out and easy to revise from e.g. CAPITALS, bold, italics. Glossary Sections	Eat well plate	GCSE PE link: pupils know the 7 components of a balanced diet: Carbohydrates Fats Proteins Water Fibre (roughage) Minerals Vitamins	
	Use the following headings to split up your glossary and cover each point: Dietary Reference Values (DRVs)/ Recommended Daily Allowance (RDA) Reference Nutrient Intake - the best estimate of the amount of nutrient considered to be sufficient for 97% of people in the group Estimated Average Requirements - the nutrient intake needed to meet the average (median) requirements of the group. About half of these people will usually need more than the EAR and about half will need less Lower Reference Nutrient Intake - the amount of a nutrient that is sufficient for only a few members of the group who have exceptionally low requirements Safe Intake - the range of intakes of a nutrient for which there is not enough information to establish RNI, EAR, LRNI. It is the amount sufficient for the majority of the group but not so large that it causes negative side-effects.	Dietary reference values Estimated average reuirements Lower reference nutrient intake Safe intake		
		Energy		



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	The Sutton Ac	Assessment
Lesson/Learning Sequence		Hered Vocabulary			Assessment
	Students will know that		In order to know this students, need to already know th	at	
	• Energy	Macronutrient			
	Macronutrient - nutrients required in large amounts (carbohydrates, fats and				
	proteins) to maintain health and well-being.	Micronutrient			
	Micronutrients - nutrients required in small amounts (vitamins and minerals) to				
	maintain health and wellbeing	Basal metabolic rate			
	Basal Metabolic Rate (BMR) - minimum rate of metabolism in an individual who is not	basar metabolic rate			
	digesting or absorbing food. BMR represents the lowest rate of energy usage that life				
	can sustain.	Calories			
	Calories - one calorie is the energy needed to raise the temperature of 1 gram of				
	water 1 degree C.	Joules			
	• Joules - 1 joule of energy moves a mass of 1 gram at a velocity of 1m per second.				
	Approximately 4.2 joules = 1 calorie.	Kilocalories			
	Kilocalories (kcal) - one kilocalorie is the energy required to raise the temperature of				
	1 litre of water by 1 degree C. It is equal to 1000 calories and used to state the energy	Kilojoules			
	value of food. Kilocalories are often simply referred to as calories.	Kilojoules			
	Kilojoules - (kj) - a unit of energy, equivalent to 1000 joules				
		Energy Balance			
	• <u>Energy Balance</u> - You are in energy balance when the amount of energy you take in				
	as food and drink (your energy input) is the same as the amount of energy you				
	expend (your energy output). You will neither lose or gain weight.				
	The 4 main components of energy expenditure are:				
	The Thain compensate of charge expensate and	Resting metabolic rate			
	Pacting Metabolic Pate (PMP) this is the metabolic rate of a person at rest and	nesting metabolic rate			
	Resting Metabolic Rate (RMR) - this is the metabolic rate of a person at rest and				
	accounts for 60 - 75 % of total energy output. It represents the largest component of				
	the total daily energy expenditure.				
		Dietary thermogenesis			
	Dietary Thermogenesis (DT) - refers to any energy expended over RMR for digestion,				
	absorption, transport and food storage. It is influenced by the calorie content and				
	composition of your diet and your own nutritional needs. High energy intakes and a				
	regular eating pattern help maintain higher rates of dietary thermogenesis.				
	0 01 1 0 7 0	Physical activity			
	Physical Activity (PA) - represents the most variable component of your total energy	1 Try Stour doctivity			
	expenditure. This is the additional energy expended above RMR and DT, and in active				
	individuals it can be the highest total daily energy use.				
		Adaptive			
	Adaptive Thermogenesis - this is the energy expended that comes from	thermogenesis			
	environmental or physiological stresses that may require you to respond by shivering,				
	or stress that causes anxiety or fidgeting.				
		Basal Metabolism			
	Basal Metabolism - to estimate energy requirements, you first need to calculate basal				
	metabolic rate (BMR) in kilocalories per day. See table is text book (p86)				
	How is this affected by: age, gender, climate, physical activity				
	Age - basal metabolism decreases with age. After the age of 30, it falls by				
	approximately 2% per decade				
	Gender - males generally have a greater muscle mass than females, so generally have				
	a higher basal metabolic rate				
		Ü	•		



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment	
See quality	Students will know that	,			
	Climate - exposure to hot or cold climates causes an increase in basal metabolism to maintain the body's internal temperature. Physical Activity - to estimate total requirements total energy requirements you also need to consider your physical activity and training. This involves taking account of the calories used in different physical activities and the intensity and length of time over which you did the activity. Energy Balance Questions 1) Explain what energy balance is 2) Describe how is weight loss and weight gain is achieved 3) Use diagrams to show each of these stages Homework Using the equations and information in your text book: Work out your own BMR Work out Helen Jones' BMR Teacher each other I will go through the first section on DRV's In 2's or 3's split up the rest of the terms in each section between you Learn your terms then take it in turns to teach the others about it (up to one minute on each!) Listeners to fill in any gaps in information using their resources Relating to the scenario When looking at these terms, start to think how they would relate to Helen Jones You will be expected to comment on daily recommended calories and intake of each nutrient Also how the individual's diet could be changed		In order to know this students, need to already know that		
Lesson 2-4	Low stakes quiz]
LO – to learn about macronutrients and micronutrients	 What does RDA stand for? Recommended Daily Allowance BMR is dependent on four factors: age, climate and what other two? Gender and physical activity What nutrient is the main energy source for the body? Carbohydrates How many calories should the average woman consume per day? 2000kcals How many glasses of water should you drink in a day? 6-8 glasses Which type of fat should only be consumed in very small amounts? Saturated fat What are proteins required for in the body? Growth and repair of muscles Milk contains an excellent source of which mineral? Calcium Which non-food source do we gain most of our Vitamin D from? Sunlight Which deficiency/disease can be caused by a lack of Vitamin C? Scurvy 				



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Understand the requirements of a balanced diet.			
	• Macronutrients (carbohydrates, fats, protein), sources of food for each macronutrient,	Macronutrients		
	quantities.			
	1. Carbohydrates -two types			
	a. simple carbohydrates (simplest carbohydrate unit is monosaccaride	Simple Carbohydrates		
	(mono=one) and saccharide=sugar) - easily digested - quick release (e.g.		GCSE PE link – pupils know the difference between simple and	
	fruit, fruit juices, honey)		complex carbohydrates. Pupils should be able to names examples	
	b. Complex carbohydrates - broken down slowly and found in bread, pasta,	Complex	of foods for both categories of carbohydrates.	
	rice, potatoes, beans, lentils. Unrefined sources such as wholemeal bread ,	Carbohydrates	or roous for both categories of carbonyurates.	
	wholegrain rice and wholemeal pasta are best as they contain a high	our borry arates		
	nutritional value from macronutrients and provide a source of fibre . After	Wholemeal		
	you eat carbohydrates your blood sugar rises. This causes the pancreas to	Wildicifical		
	release insulin. Insulin normalises blood sugar levels and helps transport	la acella		
	glucose from the blood to cells. Glucose is then used directly by the cells	Insulin		
	for energy or stored as glycogen for fuelling activity. 80% of glycogen is	Channe		
	stored in the muscles and rest is stored in the liver.	Glucose		
	Glucose - a monosaccaride that is converted to glycogen in the body			
	Glycogen - type of blood sugar and major fuel source that the body converts from dietary	Glycogen		
	carbohydrates.			
	Glycaemic Index - The glycaemic index (GI) is a rating system for foods containing			
	carbohydrates. It shows how quickly each food affects your blood sugar (glucose) level	Glycaemic Index		
	when that food is eaten on its own.			
	High GI Foods Carbohydrate foods that are broken down quickly by your body and cause a rapid increase in blood glucose have a high GI rating. Some high GI foods are: • sugar and sugary foods • sugary soft drinks • white bread • potatoes • white rice Low and medium GI foods Low or medium GI foods are broken down more slowly and cause a gradual rise in blood sugar levels over time. Some examples are: • some fruit and vegetables • pulses • wholegrain foods, such as porridge oats Can low GI foods help me lose weight? Low GI foods, which cause your blood sugar levels to rise and fall slowly, may help you feel fuller for longer. This could help control your appetite and may be useful if you're	High GI Foods Low GI Foods		
	trying to lose weight. However, as mentioned above, not all foods with a low GI are healthy. Therefore, relying on GI alone is not a good way to decide whether foods or combinations of foods are healthy.			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	• Micronutrients (vitamins A, B, C and D, minerals calcium, iron), sources of food for each	Micronutrients		
	micronutrient, quantities.			
	Hydration (different requirements of fluid intake: climate, levels of exercise, programme	Hydration		
	type, time of year).			
	The effects on performance of dehydration and hyperhydration and the signs and	Dehydration		
	symptoms of each.			
		Hyperhydration		
	Nutritional tables - one per person			
	Complete the tables on the components of a balanced diet			
	Use pages 87-91 in the text book and 60-62 in the revision guide			
	Keep contents clear and concise			
	However, make sure you understand any other key facts that could be important			
	when relating to your individual.			
	Numbroal Groups Microndifierts: Microndifierts:			
	Carbohydrate Facts Types of Carb Sources of Food Green's Vitamin A Types Sources of Food Ittle? Too much too Ittle?			
	Protein Facts Types of Protein Sources of Food (% & grams)			
	Witamin B Sources of Good Postalities Too much too (% & grame) too lettle?			
	Fat Facts Types of Fat Sources of Food (% & gramm). Whamin C Food (% & title?			
	Vtamn C. Food (9 to 0 prairie) little?			
	00 100			
	Misconception madness - spot the misconceptions - print off one per person			
	Misconception Madness!! True or Justification			
	Fact True or Justification			
	BMR increases as you get older. After the age of yor this creases after age. This can result in people gaining weight as they older because they are used to eating the same food amounts as when they were of yor this creases. FALSE youngement of the metabolism to burn in cf.			
	of 3 of it increases PALSE younger but don't have the metabolism to burn it off. approximately 2 Eper decade.			
	Consuming more feed than what you burn off will help you lose			
	weight Recommended Daily			
	Recommence usary Allowances are shown Oin percentages on food packets contact the contact of th			
	Around 70% of glycogen is stored in your liver ready to be broken			
	down for energy Unsaturated fats are			
	more likely to build up on artery walls			
	Micronutrients are			
	required in small amount by the body			
	Ď.			



Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Water is body's main transport mechanism	Hydration	GCSE PE link – pupils know the benefits of being hydrated and also	
	Carries nutrients, waste products and internal secretions	Hydration	GCSE PE link – pupils know the benefits of being hydrated and also know the physical consequences of being dehydrated in relation of	
	Regulates temperature and helps food pass through digestive system	Dehydration	sporting performance.	
	50-60% of body weight depending on age, gender and body composition. How does	Denyaration	Sporting performance.	
	body type affect this?	Hyperhydration		
	Water is lost through urine, faeces, evaporated via skin and breathing out	,, ,		
	High water loss can lead to dehydration.			
	Different type of fluid intake			
	10% of daily fluid requirements come from metabolic processes that release water			
	into your body			
	90% comes from diet (60% fluids, 30% food)			
	The amount of fluid needed is affected by:			
	• Climate			
	Levels of Exercise			
	Programme Type Time of Year			
	Time of Year Task - For each of the above explain how fluid requirements are affected. Make sure you			
	include all key terms in bold.			
	include all key terms in bold.			
	Dehydration	Dehydration		
	* A reduction of normal water content in your body when you lose more than you	,		
	take in.			
	* Reduces strength, power and aerobic capacity			
	Can cause heat stroke and be fatal			
	* A 2% loss of water in body mass can affect ability to perform			
	Dehydration Signs (see) and Symptoms (feel)		GCSE PE link – pupils know the benefits of being hydrated and also	
	Signs (see) -		know the physical consequences of being dehydrated in relation of	
	Symptoms of dehydration in adults and children include:		sporting performance.	
	feeling thirsty			
	dark yellow, strong-smelling pee			
	peeing less often than usual			
	feeling dizzy or lightheaded			
	feeling tired			
	a dry mouth, lips and tongue			
	sunken eyes			
	- Suincii cycs			
	Symptoms (Feel) -			
	 you're feeling unusually tired (or your child seems drowsy) 			
	you're confused and disorientated			
	 you feel dizzy when you stand up and it does not go away 			
	you have dark yellow pee or you're peeing less than normal (or your baby has			
	fewer wet nappies)			



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	 you or your child are breathing quickly or has a fast heart rate 			
	 your baby or child has few or no tears when they cry 			
	 your baby has a soft spot on their head that sinks inwards (sunken fontanelle) 			
	Hyperhydration			
		Hyperhydration		
	* An increase in normal water content in your body when you take in more than			
	you lose.			
	* Can be useful before starting exercise as it can improve thermoregulation			
	(control body temp) but can also be dangerous.			
	* Similar symptoms to dehydration that can lead to hyponatremia			
	* What is this condition? Which athletes can it affect the most?			
		Ulumamatuansia		
	Hyponatremia	Hyponatremia		
	A condition where sodium levels in the blood are abnormally low. This causes nausea,			
	vomiting, fatigue, headache or confusion.			
	Fluid inteller when avenueleine			
	Fluid intake when exercising			
	Pre-Event Hydration			
	Amount:			
	Drink 300–500 ml of fluid approximately 10–15 minutes before exercise begins.			
	Fluid Choices:			
	Water is a good choice, but a meal high in complex carbohydrates and fluid can also			
	support hydration for the event.			
	• Timing:			
	Hydrate well before going to bed the night before a major event, and continue small,			
	frequent intakes of fluid in the 45-60 minutes leading up to the event to avoid dehydration			
	and allow for a final toilet stop.			
	<u>During-Event Hydration</u>			
	Duning-Lycht nyulation			
	 Amount: Drink 150–200 ml of fluid every 15–20 minutes. 			
	Fluid Choices: Small amounts of glucose-based sports drinks can be beneficial			
	for exercises lasting longer than an hour to provide energy.			
	Strategy: Drink little and often, as it's the best way to stay hydrated and prevent			
	symptoms of dehydration, which often occur if you start drinking too late.			
	Symptoms of achydration, which offen occur if you start dilliking too late.			
	Post-Event Hydration			
	Amount:			
	Replace losses by drinking 1.5 times the weight of fluid lost through sweat.			
	Fluid Choices:			



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Rehydration fluids should contain significant amounts of sodium and potassium to			
	replenish salts lost through sweating and should be free from caffeine and alcohol.			
	Benefits: Drange hydration and electrolyte intake after eversion halps to restore fluid halpses.			
	Proper hydration and electrolyte intake after exercise helps to restore fluid balance, maintain normal body temperature, and ensure efficient transport of oxygen and nutrients	Electrolyte		
	to muscles.	, , , , , , , , , , , , , , , , , , , ,		
	to massics.			
Lesson 5	Understand different strategies used on an individual basis by:			
	adapting diet to gain or lose weight.			
Nutritional Strategies				
	Diet can be adapted to lose or gain weight depending on your lifestyle or the			
	requirements of your sport.			
	• Example 1 – a receptionist working for 10 years now needs to lose weight due			
	to her inactive job			
	• Example 2 – a sprinter needs to build muscle to develop her power so aims to			
	gain weight			
	 Example 3 – a boxer needs to lose weight ready for their next fight in the featherweight category. 			
	Example 4 – Someone with a low BMI suffering from stress needs to gain			
	weight			
	Strategies to gain weight			
	Eat regularly			
	Don't drink before meals			
	Complete strength training			
	Treat yourself			
	Snack regularly			
	Eat nutritious foods			
	Add nutritious drinks to your diet			
	Strategies to lose weight			
	Plan meals			
	Reduce alcohol			
	Bon totock junk rood			
	Don't ban food groups			
	Use a smaller plate			
	Read food labels			
	Eat high fibre foods			
	Drink plenty of water			
	Get more active			
	Eat plenty of fruit and veg			



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Eat regular meals			
	Don't skip breakfast			
	Understand the use of ergogenic aids used in training programmes including positive			
	and negative effects, and recommended timings:			
	energy gels and bars			
	protein drinks			
	carbohydrate loading.			
	carson, arate roading.			
	Task - questions - Strategies to use when training			
	How are gains in lean body mass achieved? Strength training programme			
	Trow are gains in lean body mass achieved: Strength training programme			
	What must be included in a diet to achieve these gains? High protein, low fat			
	diet			
	What is optimal weight? Optimal weight is an ideal weight for the body			
	composition that enable an athlete to perform successfully in their			
	sport/activity			
	What sports are affected the most by optimal body weight? Sports that			
	involve competing in a weight category e.g. body building, horse racing,			
	martial arts and rowing.			
	3			
	What is a weight-controlled sport? Include examples. Where a sport requires a			
	person to be lower than their natural weight e.g. gymnastics, figure skating,			
	distance running, diving.			
	distance running, diving.			
	Why do they need to control their weight? A lower body weight may help	Ergogenic aids		
	them perform more successfully e.g. less weight to carry over long distances			
	or to get into the air.			
	 What dangerous ways do some athletes use to control their weight? Fasting, 			
	skipping meals, laxative abuse, bingeing, purging, deliberate dehydration.			
		Energy bars/gels		
	Ergogenic Aids - 'Any aid that enhances physical performance'			
	E.g. performing enhancing drugs, drinks, foods, clothing			
	Coaches and athletes look into ways of gaining advantage physically and			
	mentally			
		Protein drinks		
	Can be legal and acceptable to use			



Lesson/Learning Sequence	Intended Knowledge: Students will know that	Tiered Vocabulary	Prior Knowledge: In order to know this students, need to already know that	Assessment
	 May have to get some on prescription Some are illegal and if found out can lead to criminal charges and bans Energy Gels and Bars Designed to replenish depleted carbohydrate stores after exercising Must be consumed at least 30 minutes before exercising for best results Light and easily digestible Consumed on the go But if consumed during exercise, the body wouldn't have time to digest the carbohydrate and turn it to glycogen so the working muscles can absorb it Protein drinks Used to produce muscle, manufacturer hormones, enzymes and immune system components Lack of protein means the body cannot put together important structures that makes cells, tissues and organs Protein can also heal muscles and reduce chance of injury Drinks are easier to absorb than solids so get to the muscles quicker Drink after a workout 30 minutes to take effect in the muscles 		In order to know this students, need to already know that	
	 Carbohydrate loading Used by endurance athletes leading up to event The body can usually stores enough glycogen to sustain 90 minutes of activity After that you start to run out of energy and would need to refuel Carbo loading helps to maximise glycogen stores in the muscles Consume high carbohydrate diet and reduce training for about 3 days before event 10g/kg extra carbs each meal Eat more wholemeal bread, potatoes, rice, pasta, fruit juice Understand the use of sports drinks for different types of training requirements including recommended timings and amounts: Hypotonic: For rapid fluid replacement without a significant energy source. Concentration: Lower salt and sugar concentration than the human body. Purpose: Quickly replaces fluids lost through sweat. Ideal For: Short-duration, low-intensity exercise, or when rapid rehydration without a large carbohydrate boost is needed. Example: Electrolyte drinks, sometimes with low carbs, providing hydration without a high energy load. 	Carbohydrate loading Hypotonic	GCSE PE link — pupils should know the concept of carbohydrate loading and understanding why athletes do this before an endurance event takes place GCSE PE link — pupils should know the concept of carbohydrate loading and understanding why athletes do this before an endurance event takes place	



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Lesson/Learning Sequence	Intended Knowledge:	Tiered Vocabulary	Prior Knowledge:	Assessment
	Students will know that		In order to know this students, need to already know that	
	Isotonic: The preferred choice for most endurance athletes for a balance of			
	hydration and energy.	Isotonic		
	Concentration: Similar salt and sugar concentration to the human body.			
	Purpose: Replaces lost fluids and provides some carbohydrates for energy.			
	 Ideal For: Endurance activities lasting over an hour, such as middle- to long- distance running or team sports, offering a balanced approach to hydration and energy. 			
	 Example: Many common sports drinks fall into this category, providing a combination of electrolytes and carbohydrates. 			
	 Hypertonic: Primarily for post-exercise carbohydrate replenishment or during extreme endurance events, but should be used with caution. 	Hypertonic		
	Concentration: Higher salt and sugar concentration than the human body.			
	 Purpose: Provides a concentrated dose of carbohydrates for maximum energy uptake. 			
	 Ideal For: Post-exercise to quickly replenish muscle glycogen stores or during very long ultra-distance events to meet high energy demands. 			
	 Caution: Can cause gastrointestinal discomfort like nausea or stitches if consumed during exercise. 			
	Aim to provide three nutrients:			
	Carbohydrate – replace energy			
	Water – replace fluids			
	· ·			
	 Electrolytes – replace important minerals e.g. sodium, potassium, magnesium lost through sweat 			