BTEC Sport Year 11

Remote Learning Plan

M//C 7th Cont	Lesson 1	Complete Poster 1 - Short Term Effects of Musculoskeletal system
W/C 7 th Sept	Lesson 2	Hand in Poster 1 and start Poster 2 Short Term Effects of CV system
Lesson 1		Lesson 2
 Create a poster with each of the effects b a pass) or explained (for a merit) the short the body to exercise: 1. Increases production of synovial fluid 2. Increases range of joint mobility 3. Micro tears in muscle fibres 4. Encourages formation of new bone 5. Increased metabolic activity 	t-term response of	
A paragraph which describes/explains in your own words. Pictures/diagrams to support your description/explanation.		8.Increased tidal volume

MIC 14th Cont	Lesson 3	Complete and hand in poster 2 - Short term effects of CV system	
W/C 14 th Sept	Lesson 4	Start Poster 3 Long Term effects of MS system	
Lesson 3		Lesson 4	
Finish your poster with each of the effects belo pass) or explained (for a merit) the short-term to exercise: 1.Increased Heart rate and blood 2.Increased breathing rate 3.Sweat production and skin reddening 4.Redistribution of blood flow 5.Lactic acid in the blood 6.Cardiac output 7.Blood pressure 8.Increased tidal volume Content: A paragraph which describes/explains in your of Pictures/diagrams to support your description/	own words.	 Create a poster with each of the effects below described (for a pass) or explained (for a merit) the long-term adaptations of the body to exercise: 1.Increase in bone density (bone strength) due to increase in calcium production 2.Decreased risk of osteoporosis 3.Stronger connective tissues (ligaments and tendons), so more resistant to injury 4.Increased thickness of hyaline cartilage 5.Increased stability of joints 6.Hypertrophy (increased muscle size) 7.Skeletal muscles adapt to using more oxygen, the muscles and their capillaries become more efficient and can therefore work for a longer period of time 8.Increased number of mitochondria 9.Improved posture. Content: A paragraph which describes/explains in your own words. Pictures/diagrams to support your description/explanation. 	

M//C 21st Sont	Lesson 5	Complete and hand in poster 3 Long Term effects of MS system
W/C 21 st Sept	Lesson 6	Start Poster 4 Long Term effects of CV system
Lesson 5		Lesson 6
Finish your poster with each of the effects below pass) or explained (for a merit) the long-term are to exercise: 1.Increase in bone density (bone strength) due production 2.Decreased risk of osteoporosis 3.Stronger connective tissues (ligaments and terresistant to injury 4.Increased thickness of hyaline cartilage 5.Increased stability of joints 6.Hypertrophy (increased muscle size) 7.Skeletal muscles adapt to using more oxygen, capillaries become more efficient and can there period of time 8.Increased number of mitochondria 9.Improved posture. Content: A paragraph which describes/explains in your of	daptations of the b to increase in calciu ndons), so more the muscles and th fore work for a lon	 exercise: 1.decrease in resting heart rate 2. increase in heart size and strength (increase in stroke volume and the heart can pump more blood per beat) 3. decreased risk of hypertension (high blood pressure) 4. increased Vital Capacity (VC) 5. increased maximum oxygen uptake (VO2 max). 6. increased efficiency to deliver oxygen and remove waste products and gaseous exchange
A paragraph which describes/explains in your o Pictures/diagrams to support your description/		

W/C 20th Cont	Lesson 7	Complete and hand in poster 4 LT CV system
W/C 28 th Sept	Lesson 8	Start Unit 5 LA A Distinction Task
Lesson 7		Lesson 8
Create a poster with each of the effects below or explained (for a merit) the long-term adapta exercise:	• •	
 1.decrease in resting heart rate 2. increase in heart size and strength (increase the heart can pump more blood per beat) 3. decreased risk of hypertension (high blood p 4. increased Vital Capacity (VC) 5. increased maximum oxygen uptake (VO2 mat 6. increased efficiency to deliver oxygen and related gaseous exchange Content: A paragraph which describes/explains in your of Pictures/diagrams to support your description/ 	ressure) x). move waste produc wn words.	For example: - Synovial fluid is a short-term response your body makes when it experiences exercise. The body increases the production of synovial fluid for the joint to be lubricated and nourished. This helps to prevent wear and tear during exercise to the tendons, ligaments

	Lesson 9	Complete and hand in LA A Distinction Task
W/C 5 th Oct	Lesson 10	Start Unit 5 LA B Pass/Merit Task
Lesson 9		Lesson 10
Using three different sports activities, compare musculoskeletal and cardiorespiratory systems exercise. You need to write up 3 responses or adaptation comparing and contrasting 3 different sports ex For example: - Synovial fluid is a short-term response your body makes whe The body increases the production of synovial fluid for the jo nourished. This helps to prevent wear and tear during exerci and bones. For example, when a runner is running the 1500r to prevent the bones from rubbing and grazing together. If t between the joints then the bone would start to wear away which will mean that the runner will not be able to run anym Another sporting example is football. In football there is 90 r walking, jumping and changing of directions. Synovial fluid is rubbing together while the player is running in the knee join twisting, turning while dribbling with the ball the hip joint is fluid is there to protect the ball and socket joint from rubbin injury, therefore compared to the 1500m runner synovial flu last sporting example is road cycling. Road cycling spend hou puts a lot of pressure on the knee joints. This could lead to the damage. But synovial fluid is produced to prevent and prote other joints that are being used. However as cycling is non w the knee joint wouldn't be as great as the runner or the foot	respond and adapt as from each poster camples for each or en it experiences exercise bint to be lubricated and ise to the tendons, ligan m synovial fluid is produ here was no synovial flu and may cause arthritis, hore as it cannot be und mins worth of running, s used to keep the joints ts. Also, when the playe being used which synov g on other bones to pre uid is really important. Thurs upon end cycling whi he bones to rub and cau ct the joints in the kneet yeight bearing the impace	toCreate a poster describing the 3 energy systems and how stating how each of them provide energy for one sports performer.i.The ATP CP/Alactic acid energy system • The Glycolysis/Lactic Acid System: • The Aerobic System: • The Aerobic System:e.Task 2 - Using two selected sports, explain how the body uses both the anaerobic and aerobic energy systems.from r is ial went hee ced anadYou should explain how each of the sports one, both or all of the energy systems depending on the activity chosen.

W/C 12 th Oct	Lesson 11	Complete and hand in Pass/Merit Task
	Lesson 12	Start Unit 5 LA B Distinction Task

Lesson 11

Task 1 –

Create a poster describing the 3 energy systems and how stating how each of them provide energy for one sports performer.

- The ATP CP/Alactic acid energy system
- The Glycolysis/Lactic Acid System:
- The Aerobic System:

Task 2 –

Using two selected sports, explain how the body uses both the anaerobic and aerobic energy systems.

You should explain how each of the sports one, both or all of the energy systems depending on the activity chosen.

Lesson 12

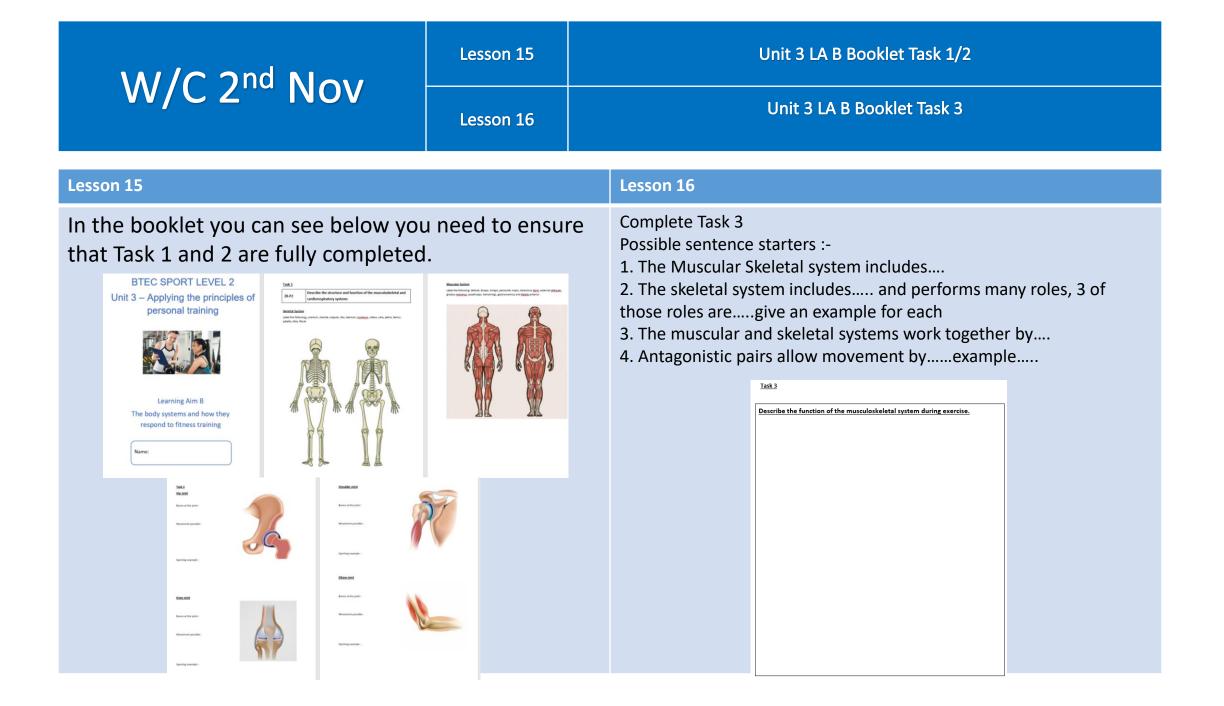
Compare and contrast how the energy systems are used in sports with different demands.

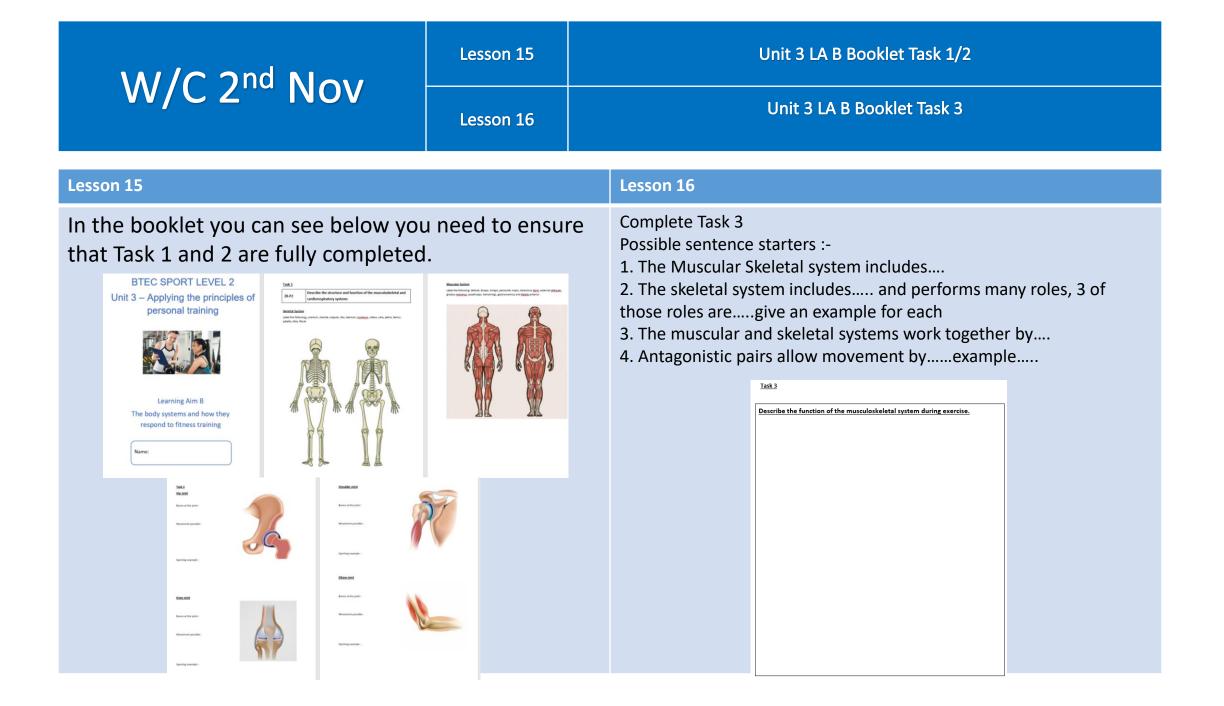
You need to choose at least 3 different sporting examples which each have different demands e.g.

	Long Jump	800m	Triathlon	Rugby
ATP/CP	Х			
Glycolysis		х		Х
Aerobic			Х	Х

You then need to compare and contrast which energy systems are used by each sport/event.

Lesson 14 Lesson 14 Lesson 14	W/C 12 th Oct			Lesson 13	Ensure all of the above is completed and handed in		
Inpare and contrast how the energy systems are used in sports with erent demands. In need to choose at least 3 different sporting examples which each re different demands e.g. Image: Image				Lesson 14			
ferent demands. u need to choose at least 3 different sporting examples which each ve different demands e.g. Long Jump 800m Triathlon Rugby ATP/CP X X X Glycolysis X X X Aerobic X X X u then need to compare and contrast which energy systems are Fully completed and handed in.	sson 13						Lesson 14
a need to choose at least 3 different sporting examples which each ve different demands e.g. Long Jump 800m Triathlon Rugby ATP/CP X I I Glycolysis X X X Aerobic I X X It then need to compare and contrast which energy systems are I I	-		the energy	systems are	used in sports	with	
ATP/CP X Image: Compare and contrast which energy systems are Atp/CP X X Glycolysis X X Aerobic X X Atpoint of the transformation o	ou need to choose at least 3 different sporting examples which each ave different demands e.g.						
GlycolysisXXXAerobicXXX		Long Jump	800m	Triathlon	Rugby		
Aerobic X X u then need to compare and contrast which energy systems are	ATP/CP	x					
u then need to compare and contrast which energy systems are	Glycolysis		х		x		
u then need to compare and contrast which energy systems are ed by each sport/event.	Aerobic			×	x		
ed by each sport/event.	ou then need to compare and contrast which energy systems are				gy systems are		
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MUC Oth NION	Lesson 17	Unit 3 LA B Booklet Task 4 and 5
W/C 9 th Nov	Lesson 18	Unit 3 LA B Booklet hand in
Lesson 17		Lesson 18
In the booklet you need to complete task Task 5 Questions to consider in your answ What is the definition of aerobic enduran What makes up the cardiorespiratory syst What does the Cardiac system do? What does the Respiratory system do? How do they systems work together to all exercise?	ver. ce? :em?	Hand in your booklet ensuring that all tasks are fully completed. Task 3 and 5 both need explanations to ensure you reach the Merit criteria.
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W/C 16 th Nov	Lesson 19	Unit 3 Booklet Page 1-2
	Lesson 20	Unit 3 Booklet Page 1-2 and Goals
Lesson 21		Lesson 22
Complete page 1 of the Unit 3 booklet.		Complete Unit 3 Page 1 – 3
Overview of current levels of activity What activity are you currently doing at the moment? What duration? How many times a week? Intensity? Strengths and weaknesses - What are your strengths at to your sport? E.g. Passing/Shooting/Dribbling/Lineouts etc Strengths and weaknesses of skill related components E.g. Balance, Coordination, Reaction Time, Agility, Power Aim – Either Aerobic Endurance or Muscular Endurance. My aim is to improve my because this will help me	of fitness – er	Attitude and motivation - How do you know you are going to be able to stick at it? Is it because you enjoy the activity you are doing it for? Your current motivation and attitude to training – This needs to be positive How this can be maintained/improved through the fitness training programme. E.g. Variation, fun, interesting, relevant sessions.rdsComplete Physical Activity Readiness Questionnaire PAR-Q thoroughly Complete Lifestyle Questionnaire thoroughlyAssessing my personal information (Use info from PAR-Q and Lifestyle Questionnaire) You need to assess how ready you are to take part in a 6-week physical activity programme Explain how your level of fitness, health and general lifestyle will allow you to take part in physical activity Discuss how you are aiming to improve over 6 weeks and the intended benefits on your fitness, health and lifestyle (e.g. how will it make you feel, your motivation, impact on your sports performance)
Objectives – Aerobic Endurance Or Muscular Endurate Why have you chosen that component? What benefit will this have to your sport/ health What training method is going to develop this? Aerobic Endurance – Continuous, Aerobic interval train Muscular Endurance – Circuit, Weight training.		GoalsSpecific – Links to you area of fitness and your sportMeasurable – Time/Miles/Test score

W/C 23 rd No	V
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Lesson 22

Lesson 21

Unit 3 Booklet Page 3 Goals

Unit 3 Booklet Training Method

Lesson 21	
<u>Goals</u> Specific – Links to you area of fitness Measurable – Time/Miles/Test score Achievable – Can it be done by you? Realistic – Is it possible?	What targets do you want to set yourself in each time frame Short term = 1 day to 1 month Medium term = 2-4 months Long term = 12 months
Time bound – When is the end point? Exciting – is your training fun?	Make sure that they are SMART E.g. in 4 weeks time I want to be able to run for 30 minutes without having to stop
Recorded – Is it written down?	 I want to be able to run for 3 miles without resting In 6 weeks I want to be able to improve my MSFT lest score from 12.0 to 13.0

short-term goals (set over a short period of time, between one day and one month)

medium-term goals (should give progressive support towards achievement of long-term goals)

long-term goals (what they want to achieve in the long term, and the best way of doing this).

Lesson 22

On the training method page in the booklet

1) What training method are you using? Continuous if aerobic endurance or Circuit if muscular endurance

2) Describe the training method?

E.g. Continuous training is....../Circuit training is......

3) What do you intend to do?

What activities did you include in your plan – running/biking/circuit activities.

Name a couple of the stations you have chosen and say why you have picked these.

4) Advantages/Disadvantages of it? Name 2 Advantages and 2 Disadvantages for the method.

5) Map of course/plan of circuit (which exercises)

What is your starting route/what is your starting circuit? How long are you going run for?/How long is each station e.g 60 seconds, How long are you going to work/rest?

W/C 30 th Nov	Lesson 23	Unit 3 Booklet Training Method
	Lesson 24	Unit 3 Booklet Warm Up and Cool Down
Lesson 23		Lesson 24
 Con the training method page in the booklet 1) What training method are you using? Continuous if aerobic endurance or Circuit if muscular endurance 2) Describe the training method? E.g. Continuous training is/Circuit training is 3) What do you intend to do? What activities did you include in your plan – running/biking/circuit activities. Name a couple of the stations you have chosen and say why you have picked these. 4) Advantages/Disadvantages of it? Name 2 Advantages and 2 Disadvantages for the method. 5) Map of course/plan of circuit (which exercises) What is your starting route/what is your starting circuit? 		 Warm Up Why do you need to do one? Explain - light, continuous physical activity to prepare the body for exercise Design a warm up Pulse Raiser Stretches Joint Mobilisation Cool Down Why do you need to do one? Explain - light, continuous physical activity to reduce heart rate, remove lactic acid and prevent blood pooling Design a cool down

Developmental Stretches

W/C 7 th Dec	Lesson 25	Unit 3 Booklet Warm Up and Cool Down
	Lesson 26	Unit 3 Booklet FITT and SPIRRAV
Lesson 25		Lesson 26
Continue with your warm up and cool down plans Warm Up Why do you need to do one? Explain - light, continuous physical activity to prepare the body for exercise Design a warm up Pulse Raiser Stretches Joint Mobilisation Cool Down Why do you need to do one? Explain - light, continuous physical activity to reduce heart rate, remove lactic acid and prevent blood pooling Design a cool down Pulse Lowering		 How have you applied FITT Frequency – How often are you training? Why do you need to increase? Why do you have rest days? Intensity – How hard are you planning to train? target zones and training thresholds (calculating and applying maximum heart rate (HR max) to training): o HR max = 220 – age (years) o 60–85% HR max is the recommended training zone for cardiovascular health and fitness o Borg Rating of Perceived Exertion (RPE) Scale (1970) (6–20) can be used as a measure of exercise intensity o the relationship between RPE and heart rate where RPE × 10 = HR (bpm). Time – How long are you training for? How does this change over the 6 weeks? Type – What time of training are you using? Why? Are you changing it at all? Why? What are and how are you applying of the additional principles of training. Specificity – How does it link to your sport? Progressive Overload – How are going to make your training harder? Individual Needs – How woles vou have time to rest and recovery? Why do you need to? Reversibility – How will you ensure this doesn't happen?

W/C 14th Dec

Adaptation – What are you trying to achieve?

Variation - How will you use this?

Lesson 28

Lesson 27

Unit 3 Booklet FITT and SPIRRAV

Unit 3 Booklet Training Plan

Lesson 27 Lesson 28 How have you applied FITT **Training Plan** You need to design your training plan, considering what you have just mentioned about FITT. Frequency – How often are you training? Why do you need to increase? Why do you Your training plan should show progressive overload. have rest days? What variation have you got in your programme? Intensity – How hard are you planning to train? target zones and training thresholds (calculating and applying maximum heart rate (HR max) to training): Aerobic Endurance o HR max = 220 – age (years) Methods Training Muscular Endurance o 60-85% HR max is the recommended training zone for cardiovascular health and fitness Wednesday Week Monday Tuesday Thursday Friday Saturday Sunday o Borg Rating of Perceived Exertion (RPE) Scale (1970) (6–20) can be Rest Jog - 20 mins Football training -1 Jog - 20 mins Rest Rest Football Match - 80 hour mins used as a measure of exercise intensity Netball training - 1 Circuit x 1 lop Rest Netball Match-50 Rest Circuit x 1 lap Rest hour o the relationship between RPE and heart rate where RPE × 10 = HR 2 Rest Jog - 22 mins Football training -1 Jog - 22 mins Rest Rest Football Match - 80 (bpm). hour Rest Rest Circuit x 1 lop Netball training – 1 Circuit x 1 lap Rest Netball Match - 50 Time – How long are you training for? How does this change over the 6 weeks? 3 Rest Jog - 25 mins Football training -1 Cycle - 25 mins Jog - 25 mins Rest Football Match - 80 Type – What time of training are you using? Why? Are you changing it at all? Why? nour Rest Circuit x 2 lops Netball training-1 Circuit x 2 laps Rest Netball Match-50 hour for endurance mins 4 Rest Jog - 30 mins Football training -1 Cycle - 30 mins Cycle - 35 mins Football Match-80 Rest What are and how are you applying of the additional principles of training. Rest Circuit x 2 laps Netball training – 1 Circuit x 2 laps Rest Netball Match- 50 hour for endurance Specificity – How does it link to your sport? 5 Rest Jog - 35 mins Football training -1 Jog - 40 mins Jog - 40 mins Rest Football Match - 80 Progressive Overload – How are going to make your training harder? Rest Netball Match-50 Circuit x 3 laps Netball training - 1 Circuit x 3 lops Weight training Rest nour or endurance Individual Needs - How does it link to your level of fitness? Football Match - 80 6 Rest Jog - 45 mins Football training -1 Cycle - 50 mins Jog - 50 mins Rest Rest and Recovery – How will you ensure you have time to rest and recovery? Netball training - 1 Netball Match-50 Rest Circuit x 3 lops Circuit x 3 laps Weight training Rest for endurance mins Why do you need to? Reversibility - How will you ensure this doesn't happen?