

Opening doors to a brighter future

BTEC Sport (single Y12-Y13) SIL



Click On the following playlist to help you complete these tasks:

James Morris PE





Can you label the 5 regions of the spine...?









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Sesamoid Bone	
Ball & Socket Joint	
Hinge Joint	
Long Bone	
Patella	
Rib Cage	
Ossification	
Epiphyseal Plate	
Cartilage	
Synovial Fluid	
Tidal Volume	
Mechanics of Breathing	
Breathing Rate	
Residual Volume	
Gas Exchange	
Diffusion	

Partial Pressure	
Medulla	
Phrenic Nerve	
Diaphragm	
Heart Rate	
Stroke Volume	
Chemoreceptors	
Cardiac Control Centre	
Vascular Shunt	
Venous Return	
Systole	
Cardiac Cycle	
Sudden Arrhythmic Death	

Task 3: Research short- and long-term effects of exercise on the following 4 body systems;

- Muscular
- Skeletal
- Respiratory
- Cardiovascular
- Short Term Effects: Means what happens to this system as soon as we start exercising.
- Long Term Effects: Means what happens to this system after long term exercise.

Muscular		Skeletal	
Short Term Effects	Long Term Effects	Short Term Effects	Long Term Effects
 E.g. Increased muscle pliability. 	•		 E.g. Increased bone density.
Respir Short Term Effects	Long Term Effects	Cardiov Short Term Effects	Long Term Effects
•	 E.g. Increased lung volume. 	 E.g. Increased stroke volume. 	•

Task 4: In a spider diagram format, explain the following conditions below. You will need to know all of these for your new course.



<u>Unit 2 SIL</u>

1. Produce an A4 or A3 poster either handwritten or on computer describing the following 6 lifestyle factors:

- Physical activity
- Sedentary lifestyle
- Stress
- Smoking
- Sleep
- Alcohol

*Include:

- Recommended Government guidelines to any of the above factors that are relevant

- Positive effects of any of the above (there aren't positives for all of them)
- Negative impacts of any of the above (there aren't negatives for all of them)

2. Design a blank PARQ (Physical Activity Readiness Questionnaire) or a Health Screening Questionnaire. Please do not fill this in!

*Include a minimum of 5 questions on the following sections:

- Personal Details
- Current Activity Levels
- Nutritional Status
- Lifestyle Factors
- Sporting Goal (only need 1 question)
- Consent Section (only need name, signature and date)

- 3. Produce a PPT presentation outlining how to perform the following 5 health screening tests:
 - Resting Blood Pressure
 - Resting Heart Rate
 - BMI
 - Waist to Hip Ratio
 - Lung Function (Peak Flow)

*Include:

- Diagram of each test
- Description of how to administer each test and list of equipment

- Normative data table for expected results of males and females for each test

If you are struggling for ideas then use: <u>www.brianmac.co.uk</u> to help you

4. EXAM QUESTION CASE STUDY:

Ross is a 35 year old male. He does no exercise each week, smokes 5 cigarettes a day, drinks 15 units of alcohol per week, has a stressful job and is only getting 5 hours of sleep per night.

Suggest one different lifestyle modification technique that Ross could do to improve each lifestyle factor mentioned in the case study. You will be awarded 1 mark for identifying the name of the strategy and 1 mark for explaining how Ross will apply it to his lifestyle (10 marks)