BTEC Assignment Brief

Qualification	Pearson BTEC Level 3 National Extended Certificate in Applied Science Pearson BTEC Level 3 National Foundation Diploma in Applied Science Pearson BTEC Level 3 National Diploma in Applied Science Pearson BTEC Level 3 National Extended Diploma in Applied Science
Unit number and title	**Unit 8: Physiology of Human Body Systems**
Learning aim	**A**: Understand the impact of disorders of the musculoskeletal system and their associated corrective treatments
Assignment title	Musculoskeletal disorders
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You are employed by a large sports and fitness company as a trainee Health Care Assistant within their Occupational Health Department (OHD). Your employers are concerned that a significant number of working days are lost due to employee absence through musculoskeletal disorders. They hope that by liaising with other Health Care professionals, the OHD will be able to create support programmes that offer employees education and guidance regarding the structure and function of the musculoskeletal system, the treatments available for disorders of the system and the effective clinical management of common musculoskeletal disorders. The company's management team hope that this initiative will reduce absences by expediting employees return to work in the shortest possible time. Your role is to carry out research in order to produce information that will be used to educate the employees.

Task	Using your lesson notes and research you have carried out into how disorders affect the structure and function of the musculoskeletal system and the impact these conditions have on the health of the affected individual, produce a report and information leaflets/posters for the employees that includes: • An evaluation of one named musculoskeletal disorder that demonstrates how this condition affects the normal movement and functioning of the musculoskeletal system and the corrective treatments associated with it. In order to be able to do this fully, you will need to include evidence of all the following aspects of the musculoskeletal system. • A detailed, in-depth, explanation using scientific knowledge of the anatomy and physiology of affected bones, joints and muscle groups.

	• An illustrated explanation of the structures and functions of the human musculoskeletal system to include the key features of the functions of the musculoskeletal systems including its role in: support, leverage and movement, protection of body organs, production of blood cells, storage of minerals. Use any photographs taken during teaching and learning to illustrate your leaflet/poster and report. • The use of scientific language and technical terminology to outline the normal anatomy and physiology of six major joints and fully explains the importance of their structure and role in enabling normal movement of the joints. You must include bones, muscle groups and the associated ligaments and tendons involved in bringing about normal movement. • Detailed evidence describing how normal movement (flexion/extension, adduction/abduction, internal/external, rotation, circumduction) is compromised in each of the three conditions you have researched. Include an overview of the available treatments health care professionals might utilise to alleviate the symptoms of the disorder. • A description and comparison of three disorders that affect different aspects of the musculoskeletal system. (For example; shoulder dislocation in joint hypermobility, rheumatoid arthritis and anterior cruciate ligament injury). • A description and comparison of the corrective treatments that are used for each of the three disorders you have chosen to research. In each case, you must include the scientific rationale behind choosing one treatment in preference to others. (For example, you could consider why non-steroidal anti-inflammatory drugs (NSAIDs) might be prescribed instead of steroid treatment; what might influence a Doctor's choice of analgesic medications or why alternative or complementary therapy might be used in conjunction with conventional treatments).
Checklist of evidence required	A report which: • Fully evaluates the effectiveness, limitations, strengths and weaknesses of different forms of corrective action and alternative treatment methods offered by medical professionals for one disorder of the musculoskeletal system. • Explains the anatomy, physiology and functional roles of the musculoskeletal system. • Describes **three** different musculoskeletal disorders and the corrective treatments related to these disorders. • Describes and compares the corrective treatments that are used for each of the three disorders you have chosen to research.

	Sources of information must be appropriately referenced. Correct scientific terminology must be used.
Criteria covered by this task:	
Unit/Criteria reference	To achieve the criteria, you must show that you are able to:
A. D1	Evaluate the effect of corrective treatment(s) associated with a musculoskeletal disorder
A.M1	Compare how disorders of the musculoskeletal system can affect how muscles bring about movement of joints and the importance of corrective treatment.
A. P1	Explain the functional role of the musculoskeletal system in the human body.
A. P2	Describe the effect of disorder of muscles and joints and possible corrective treatment(s).

Sources of information to support you with this Assignment	• Dissections/documentaries of dissections/operations, • Computer-generated simulations. • Guest presentations - Physiotherapist/Osteopath/Radiologist • Interactive A & P websites/animations/quizzes • Anatomical models • http://www.bbc.co.uk/science/humanbody/body/index_interactivebody.shtml Note: Some universities will allow students to experience virtual dissection using an 'Anatomage Table' if an educational visit can be agreed. An example of the Anatomage table can be viewed via: https://www.youtube.com/watch?v=55gueEKbkz4
Other assessment materials attached to this Assignment Brief	