

BTEC Level 3 Diploma in Sport (Year12 Preview)

Summer Independent Learning 2025

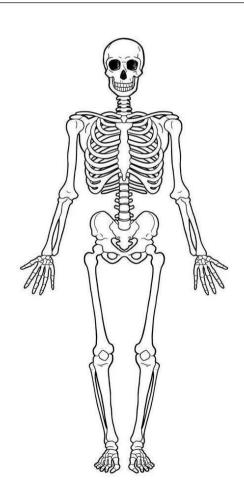
Part 1 – Compulsory Element Preview section

This links into the topics you will be looking at in September.

- This work is linked to
 - Unit 1 Anatomy and Physiology
 - o Unit 2 Fitness Training and Programming for Health, Sport and Well-being

Task 1

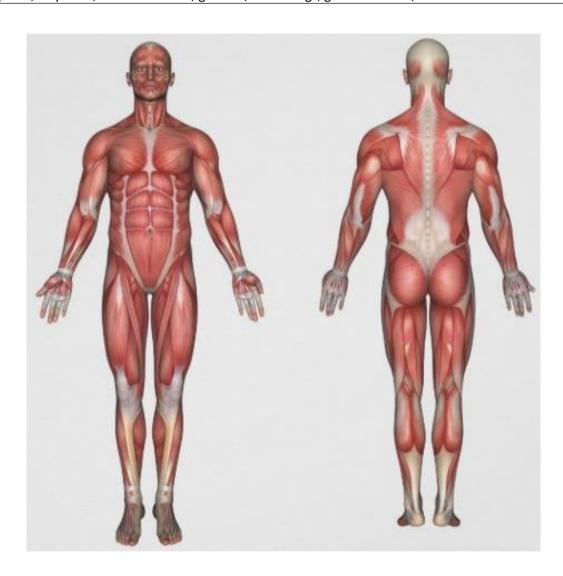
• Label all the major bones - cranium, clavicle, ribs, sternum, scapula, humerus, radius, ulna, carpals, metacarpals, phalanges, pelvis, vertebral column, femur, patella, tibia, fibula, tarsals, metatarsals.





Task 2

• Label all the major muscles - Deltoids, biceps, triceps, wrist flexors, wrist extensors, supinators and pronators, pectorals, abdominals, obliques, quadriceps, hip flexors, tibialis anterior, erector spinae, trapezius, latissimus dorsi, gluteals, hamstrings, gastrocnemius, soleus.







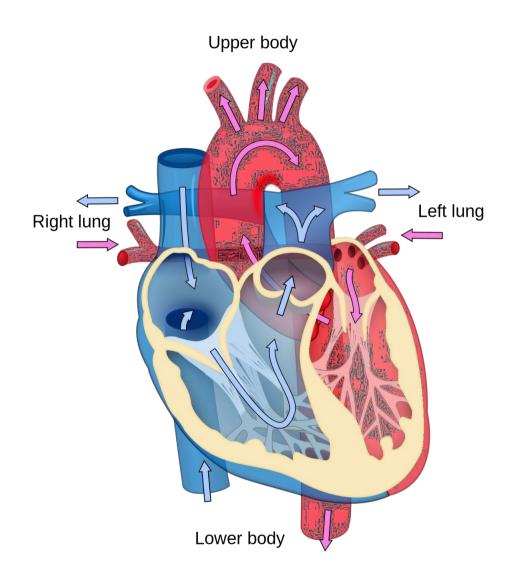






Task₃

Label the heart - atria, ventricles, bicuspid valve, tricuspid valve, semi-lunar valves, septum, major blood vessels (aorta, vena cava, pulmonary artery, pulmonary vein), coronary arteries







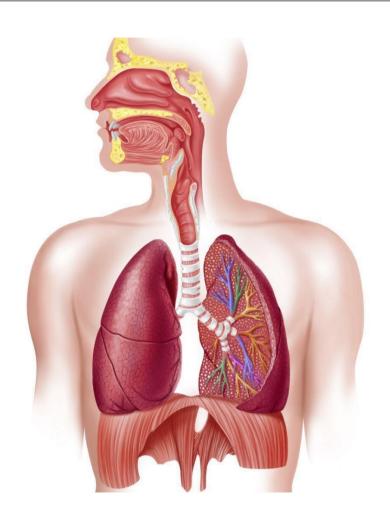






Task 4

Label the respiratory system - nasal cavity, epiglottis, pharynx, larynx, trachea, bronchus, bronchioles, lungs, alveoli, diaphragm



Task 5

Complete the table below

Lifestyle Factor	Recommended guideline
Physical Activity	
Alcohol	
Smoking	
Sleep	





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Diet	Describe the Eat Well Guide -

Macronutrient	How much a day should you have?	Why do we need it?	What foods do we get it from?
Protein			
Carbohydrate			
Fat			

Task 6

Complete the table below		

Type of Training	<u>Description</u>
Continuous training	
Circuit training	
Interval training	
Plyometrics	



Questions

Q1.	
Describe the range of movement at the ankle.	
	(Total for question = 2 marks)
Q2.	
Explain how bones of the skeleton are used in movement for sport.	
	(Total for question = 2 marks)
Q3.	
Efi has been playing rugby for 5 years. Efi's skeletal system has ada Explain two long-term adaptations to Efi's skeletal system from play	ing rugby.
(i)	
(ii)	

(Total for question = 4 marks)









Q4.

Frances is a 100 m sprinter. She uses weights as part of her training schedule.

Figure 3 shows Frances completing a concentric contraction of her quadriceps.



(Source: © Syda Productions/Shutterstock)

Figure 3

Describe a concentric contraction.
(Total for question = 2 marks)
Q5.
Describe the range of movement at the ankle.





Explain the role of the diaphragm during inspiration and expiration.
Inspiration
Expiration
(Total for question = 4 marks)
Q7.
Give one example of a sporting action that requires an isometric contraction.
(Total for question = 1 mark)
(Total for question = 1 mark)
Q8.
Describe the process of gaseous exchange at the alveoli.
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Q9.

A flat bone is one type of bone. One function of a flat bone is to protect vital organs of the body.

Complete **Table 1** by:

- (a) giving two other types of bone in Column A
- (b) giving **one** function of each type of bone in Column B.

An example has been provided.

	Column A	Column B
	(a) Type of bone	(b) Function of the bone given in Column A
Example	Flat bone	Protect vital organs
1	(1) (1)
2	(1) (1)

Table 1

(Total for question = 4 marks)

Q10.

Frances is a 100 m sprinter. She uses weights as part of her training schedule.

Figure 3 shows Frances completing a concentric contraction of her quadriceps.





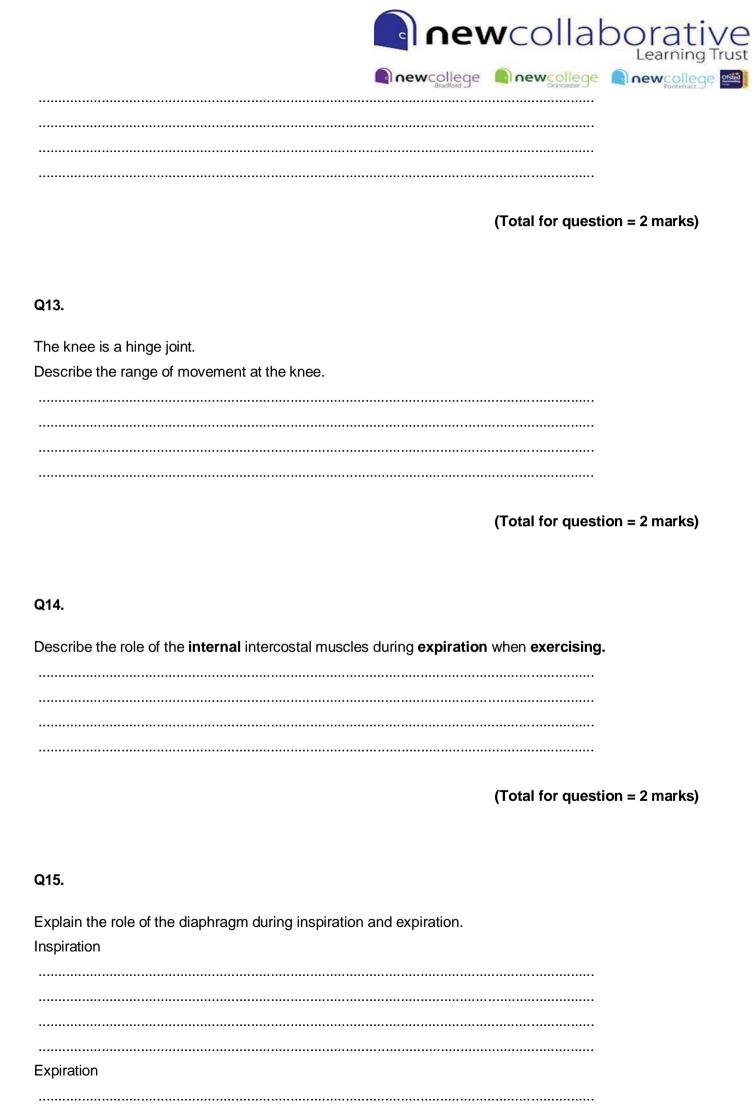
(Source: © Syda Productions/Shutterstock)

Figure 3

Describe a concentric contraction.
(Total for question = 2 marks)
Q11.
Carbon dioxide (CO ₂) is a by-product of respiration.
Describe how carbon dioxide (CO ₂) is transported in the blood.

(Total for question = 2 marks)

Q12.



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	(Total for question = 4 marks)
Q16.	
Give an example of a flat bone.	

Q17.

Give **one** example of a sporting action that requires an isometric contraction.

(Total for question = 1 mark)

(Total for question = 1 mark)

Q18.

Figure 3 shows an athlete jumping over a hurdle.

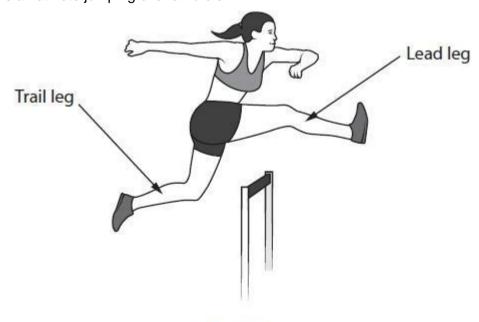
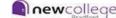


Figure 3









Complete **Table 2** by

(a) identifying the agonist muscles

(2)

(b) identifying the type of contraction of the agonist for each movement.

(2)

Joint movement	(a) Agonist	(b) Type of contraction
Knee extension (lead leg)		
Knee flexion (trail leg)		

Table 2

(Total for question = 4 marks)

Q19.

Figure 1 shows the bones of the upper body.

Identify the bones labelled A-C.

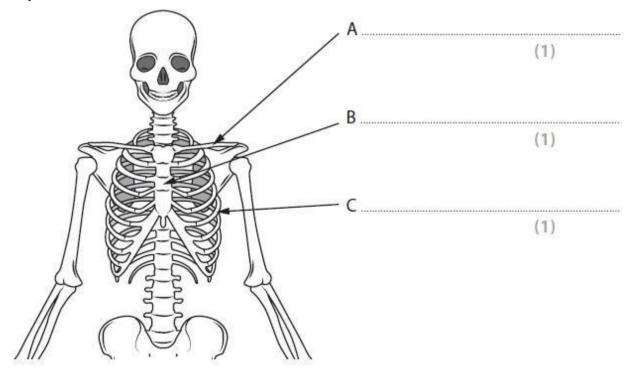


Figure 1



(Total for question = 3 marks)

(3)

Q20.

Figure 1 shows the bones at the knee.

Identify the bones labelled A–C in Figure 1.

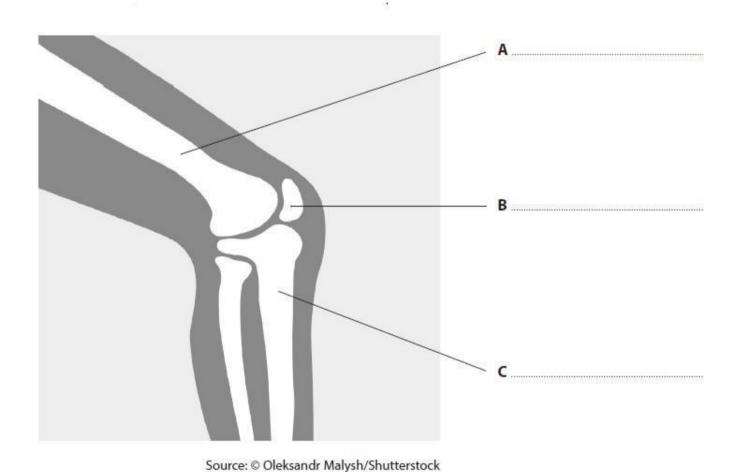


Figure 1

(Total for question = 3 marks)

Q21.

Figure 1 shows the bones of the lower leg and foot. Identify the bones labelled A–C.

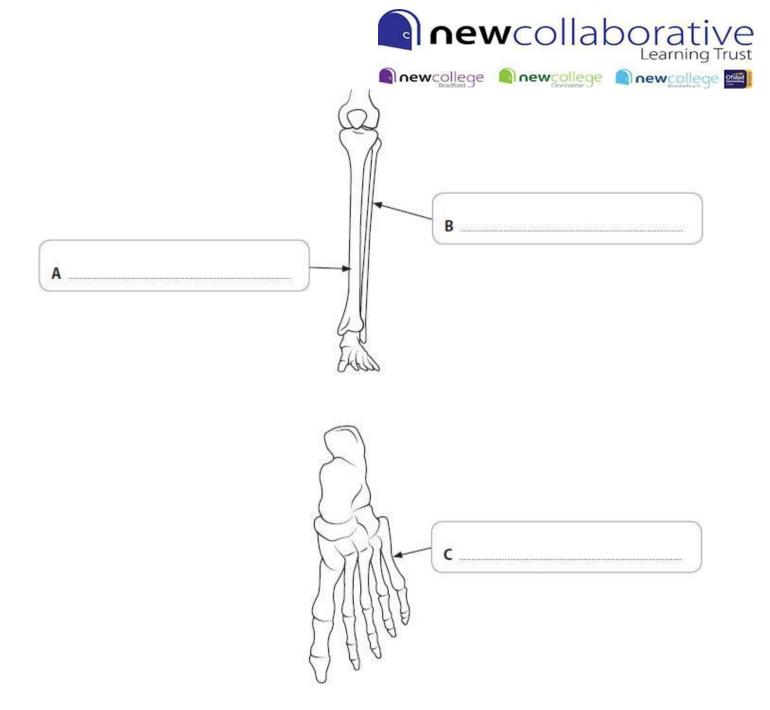


Figure 1

(Total for question = 3 marks)

Q22.

Figure 2 shows Claire performing a squat.



Figure 2

Complete Table 1 by:

(a) identifying the joint type at the knee and hip

(2)

(b) identifying the movement from standing to the position shown in Figure 2.

(2)

(a) Joint type	(b) Movement

Table 1

(Total for question = 4 marks)

Q23.

Figure 2 shows the posterior view of the skeletal muscles of the body. Identify the muscles labelled **A and B**.



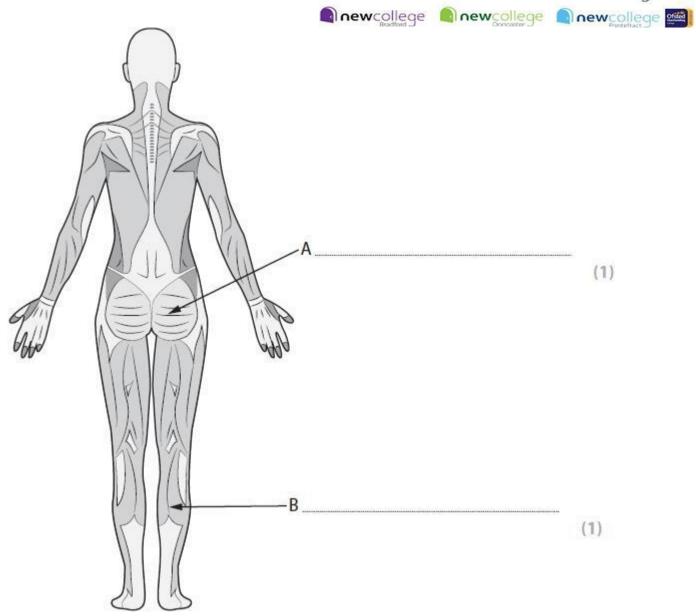


Figure 2

(Total for question = 2 marks)









Part 2 – Additional recommended Element

Expanding your subject knowledge section

This section is designed to develop your understanding of a sporting context and recent contextualisation in Sport and Leisure settings.

Choose 1 Option from the lists below and write a report (minimum 1 xA4) which;

Describes an overview of the Video/Book

Explains the relationship between the video/book and your BTEC Sport Course

Analyses the video/book and discuss your opinion and conclusion

Tick the boxes of the ones you are completing. Feel free to watch as many as you want if you have time

LEVEL 3 BTEC SPORT

DEVELOP YOUR KNOWLEDGE OF SPORTING CONTEXT IN PREPARATION FOR YEAR 2 OF YOUR COURSE



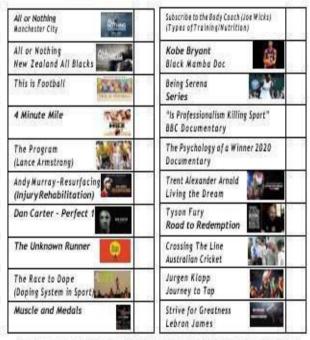




Books to Read



Formula 1 Drive to Survive



Keep up to date with all the latest news in the world of sport, there is always something happening that links to the course.....

Shoe Dog - Phil Knight History/Story of Nike

Bounce - Matthew Syed Neuroscience/Psychology

> Black box thinking Matthew Syed Psychology

Unbeatable -Jessica Ennis

No Limits - Michael Phelps

My Time- Bradley Wiggins

Between the lines -Victoria Pendleton

Legacy - James Kerr All Blocks (New Zeoland Rugby)

The Secret Race -Tyler Hamilton and Deniel Cayle Brugnitnergy Systems/Deviance









Expanding your subject knowledge Learning Log

Record here any additional reading/viewing you are undertaking in order to show what you have been completing in order to prepare you for the course. Use the reading list on the previous slides you have been given for guidance on what you could you watch/read.

Date	Title	Summary of content	My thoughts