

Qualification

OCR Cambridge Technical Level 3

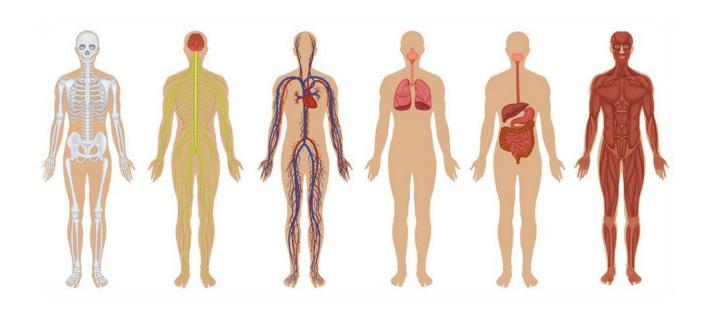


Unit

Pre-Year 12 Workbook

Staff Member

Mr Soszynski

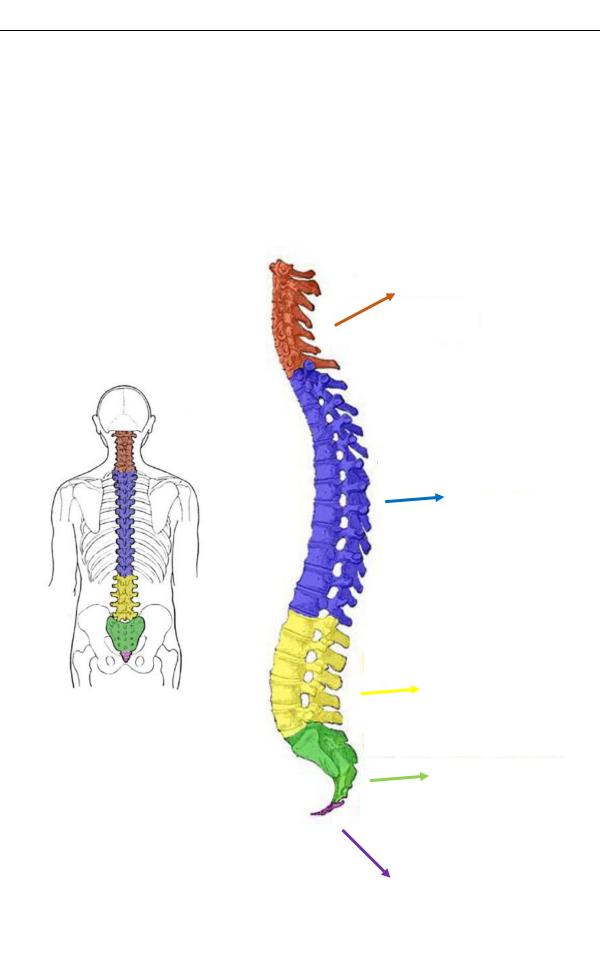


Body Systems and the Effects of Physical Activity

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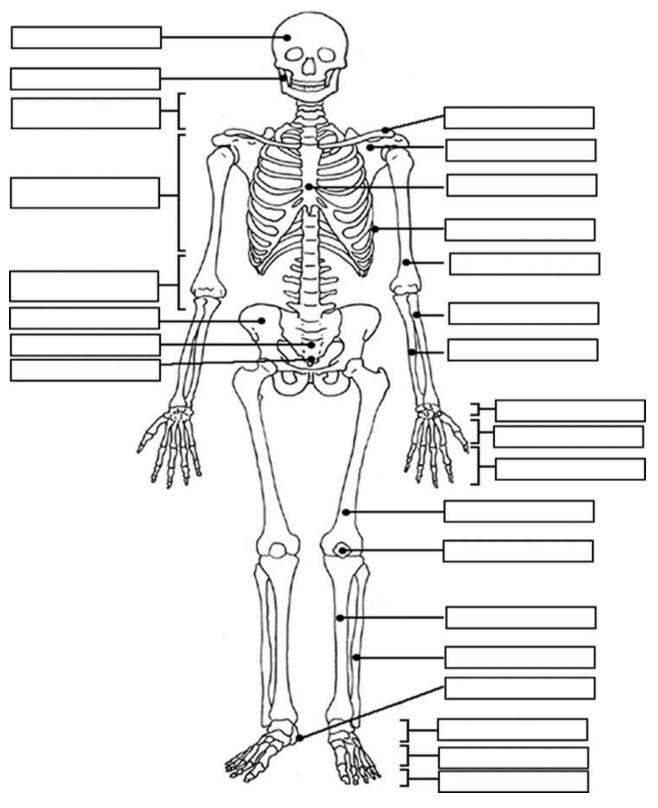
LO1: The Skeletal System





Thoracic Vertebrae, Lumbar Vertebrae, Coccyx, Sacrum, Cervical Vertebrae.

Location of Bones



Cranium, Vertebrae/Cervical Region, Scapula, Humerus, Ulna, Radius, Vertebrae/Lumbar Region, Pelvis, Sacrum, Coccyx, Femur, Fibula, Calcaneous, Tarsals, Metatarsals, Phalanges, Patella, Tibia, Ribs, Sternum, Carpals, Metacarpals, Phalanges, Mandible, Clavicle, Talus, Vertebrae/Thoracic Region.

Functions of the Skeleton

М	Υ	N	0	I	T	C	Ε	T	0	R	Р	R	V
I	E	D	E	N	Ε	M	E	T	0	P	M	Α	0
N	L	Р	U	W	Н	W	0	R	Α	R	R	L	W
E	L	R	N	P	I	R	М	٧	M	Α	L	U	Р
R	0	U	Ε	N	N	Ε	М	S	Ε	Р	Α	С	E
Α	W	S	Т	R	0	Р	Р	U	S	M	Α	I	Α
L	M	Α	S	R	T	0	Ε	N	R	С	Ε	D	Р
S	Α	R	Ε	Ε	S	Н	Α	Р	Ε	S	N	N	L
Т	R	R	Α	Υ	L	Α	Р	Е	X	S	Α	Ε	Т
0	R	0	I	0	X	Α	L	М	L	Р	S	Р	Α
R	0	L	L	Ι	Р	Υ	Α	0	W	N	٧	Р	E
Α	W	M	Α	R	U	Ε	Α	Α	T	R	Н	Α	Υ
G	T	L	R	Ε	D	M	Α	R	R	0	W	Н	I
E	R	Α	T	N	٧	С	Ε	R	P	Α	R	R	Α

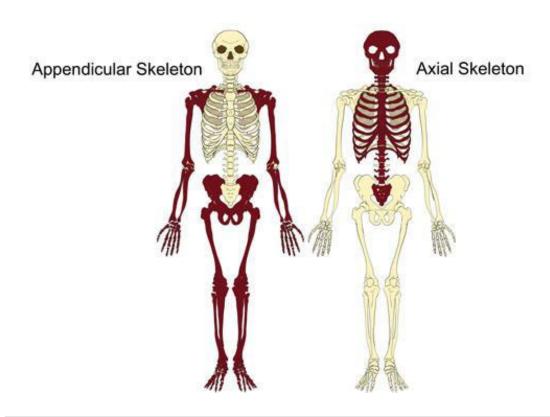
Movement
Shape
Support
Protection
Blood Production
Mineral Storage
Axial
Appendicular
Red Marrow
Yellow Marrow

Extension Task!

Research what occurs in the red and yellow bone marrow.

9.	Describe the following functions of the skeleton. Give an	example of each
15	bescribe the following functions of the skeleton. Over all	example of each.
	Protection	
10		
100		
40		
	Movement	
9		
15		
5		
35		
5	Blood cell production	
8	Blood cell production	
5	Blood cell production	
13	Blood cell production	
## ##	Blood cell production	
10 m	Blood cell production	
5	Blood cell production	[6]
5	Blood cell production	
3		muscles to pull on)
9	puoq	skeleton provides a lever system (for muscles to pull on)
5		muscles (allows movement) or the skeleton provides a lever system (for muscles to pull on)
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	6(Example) accept any named long	allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for muscles to pull on)
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<u>marrow</u> 6(Example) accept any named long bone	muscles (allows movement) or the skeleton provides a lever system (for muscles to pull on)
5 5 5 5 5	blood cells are formed in (bone) Marrow 6(Example) accept any named long bone	3 (Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for muscles to pull on)
5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	<u>marrow</u> 6(Example) accept any named long bone	column protects spinal cord. 3 (Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for skeleton provides a lever system (for muscles to pull on)
	5(Blood cell production) (red/white) blood cells are formed in (bone) marrow 6(Example) accept any named long bone	3 (Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for muscles to pull on)
	5(Blood cells are formed in (bone) marrow 6(Example) accept any named long bone	ribs protect heart / lungs or vertebral column protects spinal cord. 3 (Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for skeleton provides a lever system (for muscles to pull on)
6	5(Blood cell production) (red/white) blood cells are formed in (bone) marrow 6(Example) accept any named long bone	ribs protect heart / lungs or vertebral column protects spinal cord. 3 (Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for skeleton provides a lever system (for
	5(Blood cells are formed in (bone) marrow 6(Example) accept any named long bone	2(Example) Cranium protects brain or ribs protect heart / lungs or vertebral column protects spinal cord. 3(Movement) the skeleton is jointed (to allow movement) or attachment to muscles (allows movement) or the skeleton provides a lever system (for skeleton provides a lever system (for muscles to pull on)

Axial and Appendicular Skeleton



What is the role of the Axial and Appendicular Skeleton?

- 1. Which one of the following bones is **not** part of the axial skeleton?
 - (a) Cranium
 - (b) Sternum
 - (c) Scapula
 - (d) Ribs

Extension Task!

8. Fig. 11 shows a diagram of the skeleton.

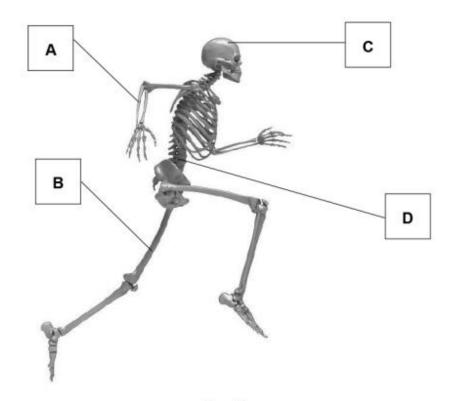


Fig. 11

Identify the bones labelled A, B, C and D.

A	
В	
С	
D	

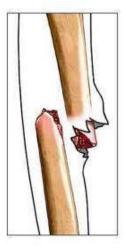
[4]

Types of Fracture

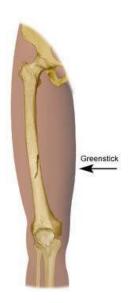








Compound



Greenstick

LO2: The Muscular System





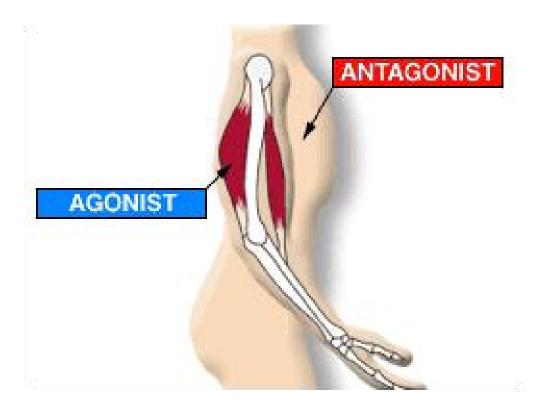
Tibialis Anterior, Supinator/Pronator Teres, External Obliques, Rectus Abdominis, Pectoralis Major, Bicep Brachii, Deltoid, Iliopsoas, Gastrocnemius, Sternocleidomastoid and Latissimus Dorsi.

What do the following key terms mean?

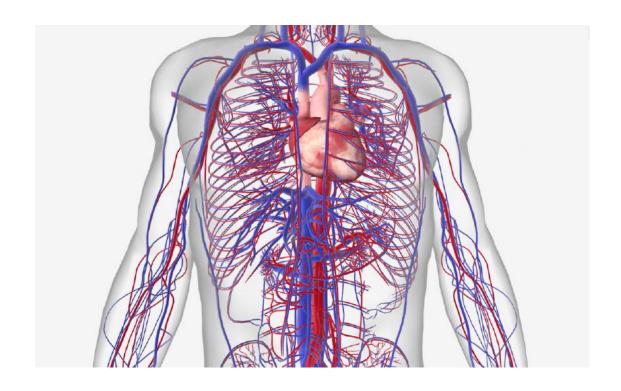
1. Agonist Muscle

2. Antagonist Muscle

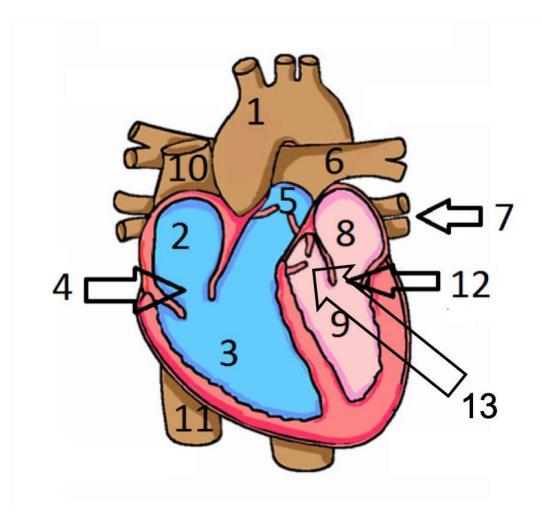
3. Fixator Muscle



LO3: The Cardiovascular System



Structure of the Heart



- 1 -
- 2 -
- 3 -
- 4 -
- **5** –
- 6 -
- 7 -

- 8 -
- 9 -
- **10** -
- **11** -
- **12** -
- 13 -

Extension Task!

15. Complete the table below to show the functions of various structures of the heart.

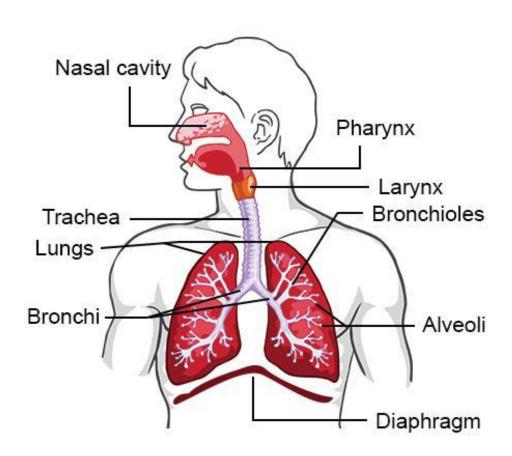
Structure of heart	Function
	Deoxygenated blood enters here from the venae cavae
Tricuspid valve	
Left ventricle	
	Blood vessel that carries deoxygenated blood towards the lungs
	This valve prevents blood flowing back into the left ventricle

Define the following terms:

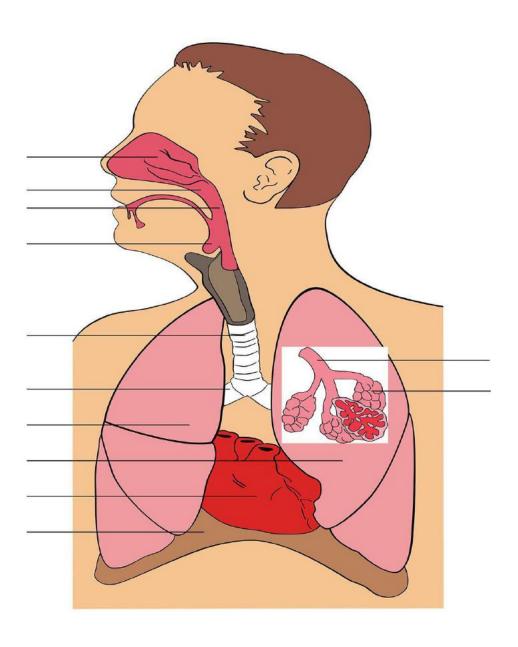
- 1. Stroke Volume
- 2. Heart Rate
- 3. Cardiac Output

[5]

LO4: The Respiratory System

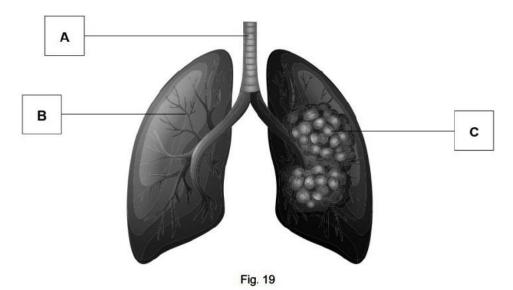


The Structure of the Respiratory System



Extension Task

6. Fig. 19 shows a diagram of the lungs.



Identify the structures labelled A, B and C.

- 14. Fig. 18.1 shows a diagram of the respiratory system.

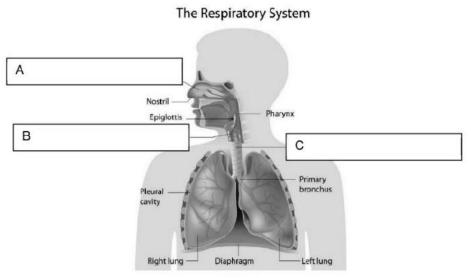
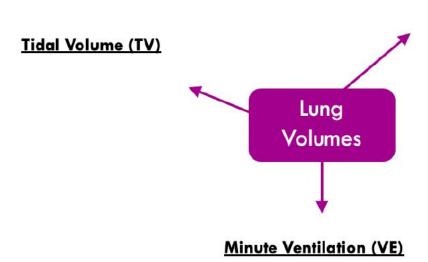


Fig. 18.1

Respiratory System Key Terms

Breathing Frequency (F)



3(a).	Describe	the roles	of the	following	respiratory	structures.
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Nasal cavi	ty
Epiglottis	
Abradi	
Alveoli	

Qualification

OCR Cambridge Technical Level 3

Unit

Pre-Year 12 Workbook

Staff Member

Miss Wright



Sports Coaching and Activity Leadership

Roles and Responsibilities of Those Involved in Delivering Sport



Favourite Athlete/Coach:

Roles and Responsibilities of Those Involved in Delivering Sport

Summary of Coach:

Extension Task:

Leadership Styles and Personality

Leadership Style	Notes	Example
Autocratic		
Democratic		
Laissez-Faire		

Leadership Styles and Personality

https://febiassessment.com/test/eysencks-personalityinventory-epi-extroversionintroversion/

Personality Quiz Results:

Preparing a Coaching Session

What does a coach check before delivering their session?

1		
J	_	•

2.

3.

4.

5.

6.

7.

8.

9.

Delivering a Coaching Session

Warm-Up Ideas

Design an Activity for Catching:

Coaching Points:

- 1.
- 2.
- 3.



Design a 3-Part Cool-Down: