



Year 13 Extended Diploma in Health & Social Care

Summer Independent Learning Task 2018



Unit 5 – Anatomy and Physiology for Health and Social Care

- When we have a group of similar cells working together this is called a **tissue**, for example muscle tissue is made up of lots of muscle cells. All the cells in a tissue look the same and perform the same job.
- A group of different tissue working together to do a specific job is known as an **organ**, our heart, stomach, lungs are all organs.
- Different organs working together form a **body system**, our heart and blood vessels work together as part of our circulatory system.

For your SIL, you will focus on tissues and some of our body systems.

Unit 5 – Anatomy and Physiology for Health and Social Care



There are numerous types of tissues in the human body.
Each with their own names and specific functions.

In this work you need to show an understanding of the FOUR main tissue types and the roles these play in TWO specific body organs

Assessment Criteria...



By completing this task your work will be assessed on the following criteria:

P2 – outline the structure of the main tissues of the body

Presenting Your Work...

- This work needs to be presented as a series of **FACTSHEETS**
- They should be colourful and include relevant annotated (labelled) images for tissue types and body organs
- Font size no larger than 12
- Produce this assignment as a MS Word document
- All pages must be numbered
- All work needs to be referenced correctly and must include a bibliography

Tissue Types...

To complete this part of the task you must produce **FOUR** factsheets which includes a description (structure and function) of each tissue type:

1. **Epithelial**: Simple (cuboidal, columnar, squamous, ciliated), Compound (simple, keratinised)
2. **Connective**: blood, cartilage, bone, areolar, adipose
3. **Muscle**: striated, non-striated, cardiac
4. **Nervous**: neurones, neuroglia

Body Organs...Choose **TWO** from the list:

- Heart
- Lungs
- Brain and Spinal Column
- Stomach
- Liver
- Pancreas
- Duodenum
- Ileum and Colon
- Kidneys
- Bladder
- Ovaries, uterus/Testes
- Skin

To complete this part of the task you will need to focus on the structure and function of the tissues within **TWO** of these organs.

Each body organ will need its own factsheet.

Body Systems



Within the human body we have a number of body systems.
Each with their own structure and specific functions.

In this work you need to show an understanding of **TWO** of our body systems.

Assessment Criteria ..



By completing this task your work will be assessed on the following criteria:

P4 – Explain the physiology of two named body systems.

Presenting your work ..

- This work needs to be presented as a report on a MS Word document (follow on from P2 work)
- Please include relevant annotated (labelled) images for each body system
- Font size no larger than 12
- All pages must be numbered
- All work needs to be referenced correctly and must include a bibliography

Please make sure you include ..

You need to outline the structure and function of TWO of the following systems (cardiovascular, respiratory and digestive system):

- **For the CV System:** include blood vessels (arteries, arterioles, capillaries, venules, veins); pulmonary and systemic circulation; structure and function of the blood and the transport of materials within plasma and haemoglobin.
- **For the Respiratory System:** Begin with the role of air passages in nose; include structure and functions of trachea, bronchi, lungs (bronchial tree, alveoli); intercostal muscles, diaphragm; ventilation, gaseous exchange, diffusion, cell respiration.
- **For the Digestive System:** Start with ingestion & mechanical digestion in the mouth. Include the role of salivary glands and explain what happens in each stage of the alimentary canal (oesophagus, stomach, duodenum, ileum, colon; liver, pancreas). Discuss the role of digestive system in breakdown and absorption of food materials - include peristalsis, digestion, absorption, and egestion.

Referencing your work...



To reference a book...

In text write it as Stretch and Whitehouse, (2010) at the end of the section it relates to.

In Bibliography

Author, (year) Title, Publisher (at the end of the work in bibliography)

Example: Stretch B and Whitehouse M (2010) BTEC level 3 Health and Social Care Book 1. Pearsons

To reference a website...

www.exploringnature.org

In Bibliography

Title of web page. Full html address. Date accessed

Example: The Four Basic Types of Tissues in the Human Body.

https://www.exploringnature.org/graphics/teaching_aids/Tissue_identification.pdf. Date accessed 04/06/2018