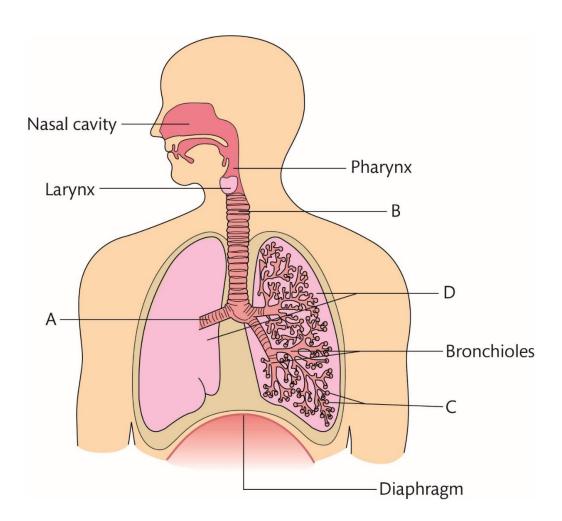


Summer Independent Learning

Subject/Group	BTEC Extended Diploma in Health and Social Care (Y12-Y13)
Topic	Anatomy and Physiology
Timescale	20 hours
To be	This work must be completed and handed in to your subject teacher on the
completed by	first day of term.

PART 1: RESPIRATORY SYSTEM

The respiratory system allows oxygen in the air to enter the body, and to be taken up by cells and tissues. The respiratory system also eliminates carbon dioxide from the body.



Bronchi:
Lungs:
Trachea:
Alveoli:
TASK 2: Produce a table to explain the structure and function of the following parts of the respiratory system: <i>Trachea, bronchi, lungs, bronchial tree, and alveoli.</i>
TASK 3: Describe how the tissue in the nose is adapted to its function (refer to the characteristics of ciliated epithelial tissue that prevent the entry of foreign bodies into the respiratory system, and that warm and moisten air).

TASK 1: Which letters on the diagram show the following parts of the body?

ASK 4: Explain th nd expiration.	e role of the in	tercostal muso	cles and the d	iaphragm in t	he process of	inspiration

TASK 5: Watch the following video: https://www.youtube.com/watch?v=57byXpOUpSU. Using the space provided below, draw a diagram showing the process of 'Gaseous exchange' and 'Diffusion':

PART 2

TASK 1: Asthma is a common disorder of the respiratory system.

You need to research the disorder and read the following case study https://aire.health/blogs/news/living-with-asthma-a-case-study to be able to complete the table below identifying the causes, symptoms and treatment for asthma:

Causes	Symptoms	Treatment

TASK 2: Pneumonia is a common disorder of the respiratory system.

You need to research the disorder to be able to complete the table below identifying the causes, symptoms and treatment for pneumonia:

Causes	Symptoms	Treatment

PART 3 – Metacognition

TASK 1: Produce an A3 mind map, identifying all of the following body organs: Heart, lungs, brain, stomach, liver, pancreas, duodenum, ileum, colon, kidneys, bladder, ovaries/testes, uterus, and skin.

You need to include a picture of the organ, the structure and the function of each.

TASK 2: Answer the following exam questions.
Explain the function of mitochondria (3 marks)
Outline the role of the following in the cell (4 marks)
Golgi apparatus
Centrioles

Explain the function of two kinds of connective tissue other than blood (4 marks)
1
2
State two types of muscle tissue (2 marks)
1
2
2

If you have difficulty in accessing IT resources to produce this work, you may complete it by hand, making sure you write clearly and neatly.

Make sure you have put your name on all sheets of paper.