Summer Independent Learning

Subject/Group	BTEC Extended Diploma in Health and Social Care (Y12-Y13)	
Topics	Anatomy and Physiology	
	Research Methods	
Timescale	15 – 24 hours	
To be completed by	This work must be completed and handed in to your subject	
	teacher on the first day of term	

SECTION 1: ANATOMY AND PHYSIOLOGY

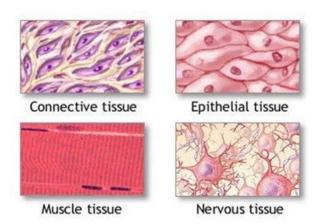
TASK 1 (A1 CELLS):

A1 How cells work

• The function and structure of cells, including membrane, nucleus, ribosomes, rough and smooth endoplasmic reticulum, mitochondria, centrioles, lysosomes and Golgi apparatus.

Create an A4 poster, labelling all parts of the cell (shown above). Make sure you explain the function and structure of each part of the cell.

TASK 2 (A2 TISSUES): Tissues are groups of similar cells carrying out specific functions. In this unit, we will look at:



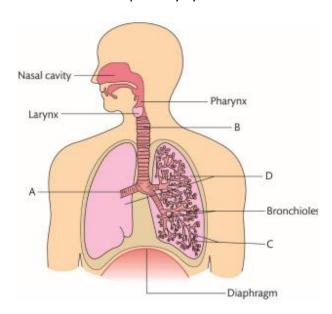
For each type of tissue, you need to explain the function and structure, then identify where it is located in the body. You can present this in a table or as a report.

TASK 3 (A3 BODY ORGANS): Produce an A3 mind map, identifying all 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 4 (B3 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.



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

Bronchi: _	
Lungs:	
Trachea: _	
Alveoli:	

respiratory system: Trachea, bronchi, lungs, bronchial tree, and alveoli.		
PART 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).		
PART 4: Explain the role of the intercostal muscles and the diaphragm in the process of inspiration and expiration.		
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PART 2: Produce a table to explain the structure and function of the following parts of the

PART 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'

SECTION 2: RESEARCH METHODS

Background/Context

There are many reasons why research is carried out into contemporary health and social care issues, for example to explore the effect of diet on health and wellbeing or the provision and impact of addiction centres in the local community.

As a health and social care professional you will need to understand the purpose of research, how it is carried out and the importance of research for improving the wellbeing of those using health and social care services.

This is an externally assessed unit made up of types of issues where research is carried out in the health and social care sector, research methods in health and social care and carrying out and reviewing relevant secondary research into a contemporary health and social care issues.

Don't forget to use your Health and Social Care textbooks and other resources to help you complete this work.

Unit 4 is found in the BTEC Health and Social Care Student Book 2.

There are TWO parts to this work. BOTH parts are mandatory.

- A variety of activities aimed at developing your understanding of enquiries into research.
- 2. Research document to read and analyse.

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A1 – Purpose of Research

The purpose of research is to find out information or gain knowledge. Research is a systematic or orderly procedure that explores issues to establish facts or reach new conclusions.

Activity 1

There are FOUR key purposes of research in health and social care. What are they?

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Activity 2

Using reputable websites, identify TWO examples of research that have been carried out in health and social care within the last five years.

	Name of research projects, the web links and a summary of the research conducted
Health	Research article 1
	Title of research project:
	URL link:
	Summary of the research that has been conducted:

	Research article 2
	Title of research project:
	URL link:
	Summary of the research that has been conducted:
Social Care	Research article 1
	Title of research project:
	URL link:
	Summary of the research that has been conducted:
	Research article 2
	Title of research project:
	URL link:

Summary of the research that has been conducted:		

Activity 3

As part of your learning, you need to have a clear understanding of the key terms used within this Unit.

Define the following key terms used in research.

Command verb/key terms	Definition/Explanation
Article	
Issue	
Health and social	
care practice	
Research methods	
Qualitative research	
Quantitative research	

Primary research		
Secondary research		
Ethical issue		
Literature review		

Activity 4

Research involves the collection of data. Data can be numerical, or it can be descriptive. Numerical data can be statistically analysed whereas descriptive data cannot be measured. There are several methods used to collect the data. In the table below are examples of the commonly used research methods.

There are several research methods which you need to know about.

Below is a table which includes most the research methods you will come across in Unit 4.

- Define each research method
- Identify ONE strength and ONE weakness for EACH research method

Research methods	Strengths	Weakness
Observations		
Definition:		
Interviews		
Definition:		
Focus Groups		
Definition:		
Experiments		
Definition:		
Surveys		
Definition:		
Definition:		
Questionnaires		
Definition:		
Coop studies		
Case studies Definition:		
Definition:		

PART TWO – READING TASK

Read the two articles and complete a SQ3R worksheet (see next page) for each article.

<u>Article 1:</u> https://www.wypartnership.co.uk/application/files/4316/0284/3010/bame-review-report-summary.pdf

<u>Article 2:</u> https://workforce.wypartnership.co.uk/application/files/5316/4555/4180/WYHCP - People Plan - Workforce Strategy 2021-2025 Public summary.pdf

SQ3R SURVEY • QUESTION • READ • RECITE • REVIEW

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Answer the following questions before reading the text.

- -What is topic of the text?
- -What is the title of the text?
- -Notice any subtitles, headings, or chapters. How is the text organized?
- -Describe a picture or graphic included in the text.

2. QUESTION

Before you start reading, write three questions you have about the text.

3. READ

Look for the answers to your three questions as you actively read the text. It is important to take the time to re-read any sections or portions of the text that are unclear.

4. RECITE

Write a short summary of the text in your own words.

5. REVIEW

Answer each question you generated before reading the text.

SQ3R SURVEY • QUESTION • READ • RECITE • REVIEW

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Answer each question you generated before reading the text.

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.