***BTEC Firsts (Level 2) in Applied Science***

***UNIT*** *3* ***ASSIGNMENT*** *6 – Criteria P6*

***Assignment Title:*** *How Does the Body Maintain an Optimal State?*

***Student Name: Teacher:***

***Date assignment issued: Final Completion Date:***

**Introduction**

In order to finish this unit you need to complete 6 assignments in total. To make sure you finish on time and meet all your deadlines the assignment has been broken down into tasks and will be spaced over the course.

Each task will start with the part of the grading criteria that the task relates to, example P1, P2 or P3. It will finish with a deadline for the task to be completed by.

**Overview:**

You will be investigating the various factors which effect human health in this unit and describing how they cause a positive or negative impact. For selected social, medical and inherited factors, you will explain how they disrupt the health of body systems. You will then learn about and research how the body maintains itself in an optimum state through control mechanisms. Finally, you will look at the social issues which arise out of the factors which you have studied.

**The learning outcomes for the unit:**

Know the factors which affect and control human health

**Brief**

You are a student doctor and you need to create a flow chart to help you understand the effect of control mechanisms on keeping the body healthy.

***Task***

Identify control mechanisms which enable the body to maintain optimum health

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| **Working on P6-**  **Grading Criteria:**  “Identify control mechanisms which enable the body to maintain optimum health” | Describe at least 2 ways in which the body controls itself in order to maintain health.  For at least 2 of the control mechanisms of the human body, create a flow chart showing how the body controls itself to maintain health.  Pick 2 from the following:   * Blood sugar levels * Temperature control * Nervous control- e.g. the vomit reflex * The Iris reflex   Now create a flow chart showing how a series of actions results in the body protecting/maintaining itself from possible harm. | **Deadline for Task:** |

**Self Assessment Checklist**

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| **Task** | **What you will have produced** | **Deadline** |
| **Linked**  **to P6** | * Describe at least 2 way in which the body controls itself in order to maintain health   **(Flow chart)** |  |

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| **Resource list** | |
| Websites:   1. [http://health.howstuffworks.com/adam-200092.htm](http://health.howstuffworks.com/adam-200092.htm ) 2. [www.bbc.bitesize.co.uk](http://www.bbc.bitesize.co.uk) 3. [www.schoolscience.co.uk](http://www.schoolscience.co.uk) 4. [www.societyofbiology.org.uk](http://www.societyofbiology.org.uk) | Text books   * Biology for you * Edexcel 360 - Core and additional * 21st Century Science Biology textbook |

**Final things:**

* + Page number your portfolio (make sure it is all in the correct order)
  + Include a bibliography stating all your sources
  + Use appendices to store any additional information e.g. your screen dumps or newspaper articles
  + Make sure you create your own front cover with your name, the BTEC details and the unit details plus your teacher’s name.
  + Make sure you create your own front cover with your name, the BTEC details and the unit details plus your teacher’s name.