***Human Biology ATAR – Task 4: Science Inquiry***

***Digestive system (7.5%)***

|  |  |  |  |
| --- | --- | --- | --- |
| Name: | | | |
| Time allowed: 1 Lesson | | | |
| **Section** | Your Mark | Marks available | Percentage |
| **Section 1:**  The journey of food |  | 25 | 50% |
| **Section 2**:  Validation |  | 25 | 50% |
|  |  | **50** | **100%** |

**Declaration of Authenticity**

I (Student Name) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ declare that this work is my own and I have not plagiarised from any source.

Signature:  
  
Date:

**Section 1: The Journey of a Piece of Food**

**Task:**

Choose one item of food. It must be a solid food, not a drink.

Describe the journey of this piece of food throughout the entire digestive system.

**Make sure to describe:**

* The entire process, from ingestion to elimination
* How long it takes for each stage of the process
* The mechanical digestive of the food
* The chemical digestive of the food
* The substances that are broken down and absorbed from the specific type of food you chose
* What those substances are then used for in the body

**Your assignment must follow the following guidelines:**

* It must be no more than 1000 words.
* It must include references in APA style format at the end of the assignment (you are expected to use at least two sources, other than your textbook for this task). The references do not count towards your word count.
* You must use appropriate headings to break your assignment.

**Other allowances:**

* Please be aware that you are allowed and encouraged to use diagrams to support your assignment, however if you do please include a link to those images in the document as a reference.

Most marks will be associated with the quality and accuracy of your description of the process. However, some marks are associated with the format of your assignment and its readability.

*(Hint: using appropriate headings and avoiding complicated jargon will improve your assignment)*

***Marking Rubric***

***Marks Description:***

|  |  |  |
| --- | --- | --- |
| ***Level*** | ***Score*** | ***Description*** |
| Not Discussed | 0 | Little to no information about this is provided |
| Developing | 1 | Information lacks detail or contains information that is incorrect. |
| Satisfactory | 2 | Information is correct and clear, however additional information was needed. |
| Exemplary | 3 | Information is detailed and includes all the relevant facts |

***Main Content:*** ***(21 Marks)***

|  |  |  |
| --- | --- | --- |
| ***Area of the Digestive System*** | ***Information***  ***Required*** | ***Scored***  ***(0-3)*** |
| Mouth and Oesophagus | Describes the role of the mouth, teeth, salivary glands, epiglottis and esophagus in digestion. |  |
| Stomach | Describes the role of the stomach in mechanical digestion of food, and if applicable, chemical digestion of proteins. |  |
| Small Intestine  (Breakdown) | Describes the role of the small intestine in the chemical digestion of food. Includes reference to the roles of the pancreas and if applicable the gall bladder. |  |
| Small intestine  (Absorption) | Describes how substances are absorbed in the small intestine, referring to the villi and microvilli and processes of transportation of the specific nutrients. |  |
| Material breakdown and use. | Describes what the specific substances in the chosen food are broken down into, and what they are used for in the body. |  |
| Large intestine | Describes the role of the large intestine in the absorption of water, minerals and some vitamins. Also discusses the role of bacteria in the breakdown of materials. |  |
| Elimination and Faeces | Describes the process of elimination from the rectum and anus. Discusses the make-up of faeces. |  |
| **Total** | |  |

***Presentation and Format:* *(3 Marks)***

|  |  |  |
| --- | --- | --- |
| ***Developing (1)*** | ***Satisfactory (2)*** | ***Exemplary (3)*** |
| Assignment is not written in a logical order, or lacks structured paragraphs/headings. Scientific vocabulary is not used very often, or is used incorrectly. | The assignment is written in a fairly logical order. Some headings and paragraphs could have been better structured. Correct scientific vocabulary is used sometimes. | Assignment is written in a logical order, with use of headings, and paragraphs to break up content. The assignment is clearly written and correctly uses scientific vocabulary. |

***References:* *(1 Mark)***

Included 3 references in APA formatting

**TOTAL: /25**