**Kolbe Catholic College**   Logo

Description automatically generated

**Title: Body System Scientific Investigation**

**Part B: Validation Extended Response**

Student Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- | --- | --- | --- |
|  | **A**  Excellent achievement | **B**  High achievement | **C**  Satisfactory achievement | **D**  Limited achievement |  |
| **Science Understanding** | | | | | |
| **Biological sciences** | Analyses the structure of a cell and organ and relates it to the efficiency of its function in different body systems of different organisms. | Analyses the structure of a cell and organ and relates it to its function in different body systems. | Analyses the structure of a cell, organ and body system and relates it to its function. | Recognises some structures and functions of a cell, organ and body system. |  |

**Question 1  Label the Circulatory System  \_\_\_ / 7 Marks**

**Question 2  What is the role of the Cardiovascular System?   \_\_\_ / 3 Marks**

**Question 3  Extended Response**  **\_\_\_ / 16 Marks**

Mark: \_\_\_\_\_\_ / 26 Marks

**Question 3 Rubric**

**Explain the transport of gases through the respiratory and cardiovascular system.**

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| --- | --- | --- | --- | --- | --- |
| Learning Outcome | 0/1 Marks | 2 Marks | 3 Marks | 4 Marks | Total |
| **Students will understand the Circulatory System uses blood vessels to transport Oxygenated blood to cells.** | Very little or no information or detail given in relation to Oxygenated blood through the circulatory system | Discuss with limited detail the movement of oxygenated blood from the lungs, through the heart,  Arteries, and capillaries to all other body systems | Discuss with some detail the movement of oxygenated blood from the lungs, through the heart,  Arteries, and capillaries to all other body systems | Explain in detail the movement of oxygenated blood from the lungs, through the heart,  Arteries, and capillaries to all other body systems using science concepts |  |
| **Students will understand the Circulatory System uses blood vessels to transport deoxygenated blood and remove waste from the cells to exhalation.** | Very little or no information or detail given in relation to deoxygenated blood through the circulatory system | Explain with some detail the circulatory System uses blood vessels to transport deoxygenated blood and remove waste from the cells through veins, to the heart | Explain with some detail the circulatory System uses blood vessels to transport deoxygenated blood and remove waste from the cells through veins, to the heart, the pulmonary artery to the lungs | Explain in detail the circulatory System uses blood vessels to transport deoxygenated blood and remove waste from the cells through veins, to the heart, the pulmonary artery to the lungs and exhalation |  |
| **Students will understand the Respiratory System brings oxygen into the body and removes carbon dioxide** | Identify the process of Cellular Respiration | Identify the process of Cellular Respiration and how the process relates to the human body | Identify the process of Cellular Respiration, making reference to inhalation, exhalation, diffusion  and how the process relates to the human body | Identify and define using science concepts the process of Cellular Respiration, inhalation, exhalation, diffusion  and how the process relates to the human body |  |
| **Students will be able to apply their knowledge to the circulatory system and other body systems** | Explain the role of the circulatory system in limited detail  And/or  Identify other body systems and their role in using blood | Explain the role of the circulatory system in limited detail  And/or  Identify other body systems and their role in using blood in limited detail | Explain the role of the circulatory system in providing oxygen for the other body systems | Explain the role of the circulatory system in providing oxygen for the other body systems using science concepts |  |
|  |  |  |  | **Total:** |  |