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| **Year 8 Science**  **Assessment Task 1: Conceptual Model 2025** |

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| **TOPIC**: Living World | **MARKS: /40** |
| **SUBMISSION REQUIREMENTS:**  **PART A:** 1 A4 poster uploaded to CANVAS.  **Part B:** Annotated visual or conceptual model of the chosen organ system  ***Due:* Week 10 Wednesday 2rd April 2025 Submission by 3pm via CANVAS** |
| **Outcomes to be Assessed:**  **SC4 - 7WS** Processes and **analyses** data from a first hand investigation and secondary sources to identify trends patterns and relationships, and draw conclusions.  **SC4 - 8WS** Selects and uses appropriate strategies, understanding and skills to **produce** creative and plausible solutions to identified problems.  **SC4 - 9WS Presents** science ideas, findings and information to a given audience using appropriate scientific language, text types and representations.  **SC4 - 15LW** **Explains** how new biological evidence changes people's understanding of the world. | |
| **DIRECTIONAL VERBS**   |  |  | | --- | --- | | **Analyse**  **Investigate**  **Presents**  **Produce**  **Explains** | Identify components and the relationship between them  Plan, inquire into and draw conclusions about  To give something to someone formally or officially  Show or provide for consideration  Relate cause and effect; make the relationships between things evident; provide why and/or how. | | |
| **TASK DESCRIPTION:**  **Select an Organ System:**   * Circulatory System*: How substances move in and out of cells.* * RespiratorySystem*: How the diaphragm inflates the lungs.* * DigestiveSystem*: How stomach acid digests food.* * Muscular*/*SkeletalSystem*: How tendons make the hands grip.* * DigestiveSystem*: How the oesophagus uses peristalsis to transport food.* * DigestiveSystem*: How bile breaks down oils.* * *Or another that has been approved by your class teacher.*   **Part A: Written Report – Poster** *(Use template provide*)   * Research information regarding organ donation. * Present your information in the template provided, digitally.   **Part B:– Scientific Model** (*Use the template provided)*   * Construct a model of your chosen **organ system** showing its structure * Annotate your model, highlighting important structures and functions of the organ system * Explain the materials and features you will use. * Clearly label all parts of your model.   ***Upload to CANVAS: Submit the poster and model to CANVAS for assessment.*** | |

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| **TASK CRITERIA**  **Part A: Written Report – Poster**   1. *Research information regarding organ donation.*   Your research should include:   * Define your organ system. * Define the relevant organs. * What conditions affect this body system? * What are the possible treatments for these conditions * Statistical Information about this system * Myths and Misconceptions about this organ system * Explain what this system provides for the body * Label the relevant organs of the body system * Reference list   **Part B: annotated visual or conceptual model**   1. *Construct a Model –Build a model representing the structure of the organ system chosen in Part B.*   Ensure the model:   * Is Accurate: Reflects the real structure and function. * Is Labelled: Clearly label all parts of the model. * Is Annotated: Clearly explains all important parts and functions of the body system   Your annotations should include:   * **Model Features**: Discuss each part of the model and its significance. * **Model Limitations**: How does the model differ from the actual organ.   ***Upload to CANVAS: Submit both the poster and video to CANVAS for assessment.*** |

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| **ASSESSMENT MARKING CRITERIA – PART A (Poster)** | | | | | | | | |
| **Part A: *Written Report (Poster)* (SC - 9WS, SC4 - 15LW)** | | | | | | **Mark** | **Grade** | |
|  | **CATEGORY** | **3** | **2** | **1** | **0** | **Marks** | |
| **SC4-15LW – Knowledge and Understanding** | **Organ system definition** |  | Accurate definition of organ, example included | Accurate definition of organ, example NOT included | Incorrect or absent |  | |
| **organ definitions** |  | Accurate definition of tissue, example included | Accurate definition of tissue, example NOT included | Incorrect or absent |  | |
| **Explanation of body system conditions** |  | Clear and detailed explanation | Explanation correct, but lacking detail | Incorrect or absent |  | |
| **Body diagram** |  | Correctly labels the organs for the system | Mislabels or incorrectly labels organs | Incorrect or absent |  | |
| **Possible treatment for conditions** | Thorough description of the treatments for the abovementioned conditions | Sound outline of the treatments for the abovementioned conditions | Identification of possible treatments for the body system | Incorrect or absent |  | |
| **Explanation of what the system provides for the body** | Thorough explanation with clear and detailed links to how the system provides an essential function to the body | sound explanation with detailed links to how the system provides an essential function to the body | basic explanation of what the system provides for the body | Incorrect or absent |  | |
| **SC4-9WS - Communicating** | **Statistics** | Correctly describes 3 relevant statistics about the organ system | Correctly outlines 2 relevant statistics about the organ system | Correctly outlines 1 relevant statistics about the organ system | Incorrect or absent |  | |
| **Myth or misconceptions** | Correctly state 3 myths or misconceptions about the organ system  AND  explains why it they are in fact not true | Correctly state 2 myths or misconceptions and the organ system  AND  identifies why they are in fact not true | Correctly state ONE myth or misconception | Incorrect or absent |  | |
|  | POSTER SUB TOTAL | | | | | | /20 | |

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| **ASSESSMENT MARKING CRITERIA – PART B (Model)** | | |
| **Part B: *Construction of your Model* (SC4 - 7WS, SC4 - 8WS, SC$-9WS)** | **Mark** | **Grade** |
| Outstanding presentation that effectivelydemonstrates how the model structure resembles the function of the chosen body process through the inclusion of:   * *There is a comprehensive outline of how the model is different from what happens in the body using reliable secondary sources.* * *A clear understanding of the limitations of the model is evident. All aspects of the information piece are accurate, with extensive use of scientific language conventions and representations.* * *Incorporation of scientific terminology shown throughout model* * *Extensive annotations explaining the structure, function and important aspects of the organ system* | 18 - 20 | A |
| Thorough presentation that appropriatelydemonstrates how the model structure resembles the function of the chosen body process. All the following are included, although some components may be incorrect or lacking in detail:     * *There is a detailed outline of how the model is different from what actually happens in the body using reliable secondary sources.* * *A clear understanding of the limitations of the model is evident. Most aspects of the information piece are accurate, with appropriate use of scientific language conventions and representations. Some components, however, may lack detail.* * *Thorough annotations explaining the structure, function and important aspects of the organ system* | 14-17 | B |
| Sound presentation piece that adequately demonstrates how the model structure resembles the function of the chosen body process.Most of the following are included, although some components may be incomplete, incorrect or lacking in detail:   * *A sound understanding of the limitations of the model is evident. Most aspects of the information piece are accurate, with appropriate use of scientific language conventions and representations, however some aspects of the piece may be incomplete, incorrect, or lack detail.* * *Sound annotations outlining the structure, function and important aspects of the organ system* | 10 - 13 | C |
| Basic presentation that shows some attempt of demonstrateshow the model structure resembles the function of the chosen body process. Some of the following are included, with several components being incomplete, incorrect or lacking in detail:   * *A basic understanding of the limitations of the model is evident.* * *The information piece is incorrect or lacks appropriate details, incorrect use of scientific language conventions and representations.* * *basic annotations identifying the structure, function and important aspects of the organ system* | 6-9 | D |
| Limited presentation that shows no attempt ordemonstrates how the model structure resembles the function of the chosen body process with some of the following present:   * *There is a limited understanding of how the model is different from what actually happens in the body using no secondary sources.* * *Minimal or no understanding of the limitations of the model is evident. The information piece is incorrect or lacks appropriate details, incorrect use of scientific language conventions and representations.* * *limited annotations identifying the structure and/or of the organ system* | 1-5 | E |