Year 12 Design & Technology

Product design Assessment Task 2024

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| **TOPIC**: Design Task | **MARKS:** /30 |
| **SUBMISSION REQUIREMENTS:**  **This task needs to be submitted in two parts.**  **Part A** to be submitted in class on **Friday 8th March 2024**, **Period 2**  **Part B** will be assessed in class on **Friday 8th March 2024, Period 2** | **WEIGHTING:**  20% |
| **OUTCOMES TO BE ASSESSED:**  H1.1 **Critically analyses** the factors affecting design and the development and success of design projects.  H3.2 Uses creative and innovative approaches in **designing** and producing.  H4.1 **Identifies** a need or opportunity and researches and explores ideas for design development and production of the MDP | |
| **DIRECTIONAL VERBS:**  **Critically Analyse** – is a careful examination and evaluation of a text, image, or other work or performance.  **Design** – a plan or drawing produced to show the look and function or workings of a building, garment, or other object before it is made.  I**dentify**- to recognise and name | |
| **TASK DESCRIPTION:**  **You are tasked with presenting your final design idea for your MDP product/ environment.** You will need to develop the following:  **Part A. To be done at home and bought into school on Friday 8th March for the in-class report and submission.**  A detailed and annotated sketch of two (2) *different* **design** solutions that includes all necessary design specifications. May be a hand drawn sketch or CAD drawing using google sketch up. **/10**  **Part B. To be done in class at school with a scaffolded template on Friday 8th March 2024 (period 2)**  A report that includes the following areas:   * An outlineof the final MDP design chosen from the two sketches produced in part A**.** * **Identify** the need/ opportunity for the design project. * An explanationfor final design choice and how this design links to trends in society * **Critically analyse** the factors affecting the final design * Describe the research conducted for the Major Design Project Development.  **/20**   **Please note: If students are absent on Friday 8th March 2024, they MUST bring a doctor's certificate to justify absence. Please make sure you are prompt to the class period 2.** | |
| **ASSESSMENT CRITERIA:**   * Make sure your sketch is clearly labelled, identifying any relevant features, parts, or components, as well as approximate sizes of parts or components. * Think about context. Your sketch should be accurate in the way that it meets the design brief and consumer needs. * A detailed report scaffold will be given to you in class on Friday 8th March 2024- Period 2. Use the Task description questions to help you prepare your answers. * You will have 50 minutes to complete part B. | |

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| **ASSESSMENT MARKING CRITERIA** | | |
| **3D Sketch** (Outcome H3.2) | **Mark** | **Grade** |
| Students **design** two design products/environments of outstanding quality by accurately meeting the design brief through the inclusion of the following:   * *Two different sketches of the design that have been created through the use of hand drawings or CAD drawings.* * *Each sketch / pictorial drawing to be clearly labelled which identifies the dimensions of the design, along with appropriate materials and an explanation of the parts within each design.* * *Both sketches to be coloured and presented in a professional manner* | 9 -10 | A |
| Students **design** two design products/environments of high quality by accurately meeting the design brief through the inclusion of the following:   * *Up to two different sketches of the product/environment that have been created through the use of hand drawings or CAD drawings.* * *Each sketch / pictorial drawing to have some labelling included which identifies some or all of the following aspects: dimensions of the design, appropriate materials and/or an explanation of the parts within each design.* * *Sketches should be coloured and presented in a professional manner.* | 7 - 8 | B |
| Students **design** up to two design products/environments that meet some or all aspects of the design brief through the following:   * *Up to two different sketches of the product/environment that have been created through the use of hand drawings or CAD drawings.* * *Each sketch / pictorial drawing to have some labelling included which identifies some or all of the following aspects: dimensions of the design, appropriate materials and/or an explanation of the parts within each design.* | 5 - 6 | C |
| Students **design** a basic sketch that attempts to meet the design brief through including some of the following:   * *sketches of the product/ environment that have been created through the use of hand drawings or CAD drawings.* * *some labelling included.* | 3-4 | D |
| Students display limited skills in the **design** of a design product/environment.   * *A pictorial drawing that does not accurately detail the product/ environment.* * *The student’s design does not fit the requirements of the brief, with many aspects of the sketch (including labelling of components and the context of the brief) being inaccurate or incomplete.* | 1-2 | E |

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| **ASSESSMENT MARKING CRITERIA** | | |
| **Report** (Outcome H1.1, H2.1, H6.2) | **Mark** | **Grade** |
| *Student produces a comprehensive report****,*** *which justifies the final design for the MDP design. This report includes:*   * A detailed outline of the final MDP design which was chosen from the two sketches produced in part A**.** * Acomprehensive **Identification** of the need/ opportunity for the design project. * A thorough **explanation** for final design choice. * A clear **explanation** about how this design links societal trends, such as sustainability, the need, materials, visual appeal. * A comprehensive ability to **critically analyse** the factors affecting the final designand how these factors help make the design a success. * A comprehensive explanation of research methods that will be undertaken. * Consistent use of subject specific terminology used throughout the report. | 17-20 | A |
| *Student produces a detailed report****,*** *about the final design for the MDP design. This report includes some or all of the following:*   * An outline of the final MDP design which was chosen from the two sketches produced in part A**.** * A detailed **Identification** of the need/ opportunity for the design project. * An **explanation** for final design choice. * A clear **explanation** about how this design links societal trends, such as sustainability, the need, materials, and visual appeal. * A comprehensive ability to **analyse** the factors affecting the final designand how these factors help make the design a success. * A detailed explanation of research methods that will be undertaken. * Use of subject specific terminology used throughout the report. | 13-16 | B |
| *Student produces a report****,*** *about the final design for the MDP design. This report includes some or all of the following:*   * An outline of the final MDP design. * A sound **Identification** of the need/ opportunity for the design project. * A week **explanation** (description)of the final design choice. * Some links to societal trends, such as the need, materials, and visual appeal. * A **description** the factors affecting the final designand how these factors help make the design a success. * Some **explanation** of research methods that will be undertaken. * Some use of subject specific terminology used throughout the report. | 9-12 | C |
| *Student produces a basic report which includes some or all of the following:*   * An outline of the final MDP design; and/or * An **Identification** of the need/ opportunity for the design project. * An **explanation** for final design choice; and/or * Basic description (outline) the factors affecting the final designand how these factors help make the design a success. * Basic **explanation** (description) of research methods that will be undertaken. | 5-8 | D |
| *Student produces a limited report and mentions some of the following things:*   * An identification of the final MDP design and why it was chosen. * Some reference to the need/ opportunity for the design project. * Some similar products or environment trends identified. * May mention some of the factors affecting the final design. | 1-4 | E |