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| **Environmental Technology (2020)**  Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  School: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Entry number: \_\_\_\_\_\_ | **Absent**  **/Not Strong** | **Good** | **Very**  **good** | **Excel- lent** | **Mode-rator** | **Marks Possible** |
| Technological Knowledge & Capability | 0 - 3 | 4 - 5 | 6 - 7 | 8 - 10 |  |  |
| **Need or Opportunity identified**   * need or opportunity identified * research on current environmental technology and applications * limitations of existing technology identified if appropriate * impact of current technology on the environment |  |  |  |  |  | **10** |
| Technological Development | 0 - 5 | 6 - 10 | 11 - 15 | 16 - 20 |  |  |
| **Development of process or product**  -  a range of concepts is generated & evaluated   * comment made on appropriate environmental benefits on technological aspects * appropriate materials used considering the environment * ease of use commented on * scoping of stakeholders has been carried out * Environmental benefits identified and discussed |  |  |  |  |  | **20** |
| Technological Final Product | 0 - 3 | 4 - 5 | 6 - 7 | 8 - 10 |  |  |
| **Performance specifications**   * specifications are listed and relate to end user potential for production or use * safety concerns are addressed * functioning prototype * environmental benefits are evident through the use of the product |  |  |  |  |  | **10** |
| ***Innovation & originality***   * evidence of advances over existing technology * evidence of advantages for the environment * evidence of originality & innovation * evidence of independent development of the technological process e.g. coding of software/engineering the hardware   **Presentation of Product or process**   * product/ functional model or photo of model presented * Product clearly identifies environmental advantages from its use * software programme and coding of the prototype present |  |  |  |  |  | **10** |
| Technological Evaluation | 0 - 5 | 6 - 10 | 11 - 15 | 16 - 20 |  |  |
| **Evaluation of Product or Process**  -   evidence of  meeting performance goals  -   potential for production commented on  -   areas of  difficulty mentioned  -   impact on stakeholders and the environment commented on |  |  |  |  |  | **20** |
| Visual Presentation | 0 - 3 | 4 - 5 | 6 - 7 | 8 - 10 |  |  |
| * layout has  impact and appeal * text is clear, easy to read and follows a logical progression * graphics, models, diagrams, photos, lettering etc enhance understanding |  |  |  |  |  | **10** |
| Log Book/Project Journal | 0 - 3 | 4 - 7 | 8 - 11 | 12 - 15 |  |  |
| * Dated entries tell the reader * What did you do today? * What questions were you trying to answer with that? * Where did you look for information / who did you get help from? * What did you find out? * What do you think about it now and why? |  |  |  |  |  | **10** |
| Oral Presentation | 0 - 3 | 4 - 7 | 8 - 11 | 12 - 15 |  |  |
| Student responds well to oral questions such as   * Why is your product important? * How well does your product meet the need for it? * How is your product from existing technology? * How does your product impact the environment? * What did you discover while developing your project? * How did this impact your end product? * What was the biggest challenge you had to overcome? * If you were continuing with this project, what would you do now to make it even better? |  |  |  |  |  | **10** |
| **Total:**  **Creativity award -** write *Yes* under final score if judge thinks this project *should be considered* for this. This could be creativity and originality of topic; or creativity around presentation |  |  |  |  |  | **/100** |