|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
|  **Soft/hardware Technology (2020)**Name: School: Entry number:  | Absent/Not Strong | Good | Verygood | Excel- lent | Moderator | Marks Possible |
| Technological Knowledge & Capability | 0 - 3 | 4 - 5 | 6 - 7 | 8 - 10 |  |  |
| **Need or Opportunity identified*** need or opportunity identified
* research on current technology and applications
* limitations of existing technology identified if appropriate
 |  |  |  |  |  | **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 technological aspects
* appropriate materials used
* ease of use commented on
* scoping of stakeholders has been carried out
* Software/hardware programme 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
 |  |  |  |  |  | **10** |
| ***Innovation & originality**** evidence of advances over existing technology
* 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
* 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 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/ software different from existing technology?
* What did you discover while developing our project?
* How did this impact your end product?
* What was the biggest software/ hardware 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** |