Project Rubric Stage 5 component sheet

Analysis	Fully or nearly fully thought-out analysis of a real problem, presented in a way that a third party can understand. Requirements fully documented in a set of measurable and appropriate specific objectives, covering all required functionality of the solution or areas of investigation. Requirements arrived at by considering, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects.	Analysis of a real problem is well thought-out, but there are some minor omissions that are not serious enough to undermine later design. Most, but not all, requirements documented in a set of broadly measurable and appropriate specific objectives that cover most of the required functionality of a solution or areas of investigation. Requirements arrived at, in the main, by considering, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects.	Partly thought-out analysis of a problem. Requirements partly documented in a set of specific objectives, not all of which are measurable or appropriate for developing a solution. The required functionality or areas of investigation are only partly addressed. Some attempt to consider, through dialogue, the needs of the intended users of the system, or recipients of the outcomes for investigative projects.	No analysis or real planning is evident.
Design	Fully or nearly fully articulated design for a real problem, that describes how all or almost all of the key aspects of the solution and investigation are to be structured or are structured.	Adequately articulated design for a real problem that describes how most of the key aspects of the solution and investigation are to be structured or are structured.	Partially articulated design for a real problem that describes how some aspects of the solution and investigation are to be structured or are structured.	Inadequate articulation of the design of the solution, which makes it difficult to obtain a picture of how the solution and investigation is structured without resorting to looking directly at the programmed solution.

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Implementation	A system that meets almost all of the requirements of the initial design brief. Any changes or iterations are recorded in the reporting.	A system that achieves many of the requirements set out in the initial design but not all. Any changes from the initial design are recorded in the reporting and documentation.	A system that covers some aspects of the initial design without straying too far from the initial concept. Some deviations from the initial design are documented or referenced in the reporting.	A system that is not comparable to the design presented and shows no record of iterative changes.
Technical difficulty	A system that combines **all** of the following: programming, digital art, digital devices, electronic components and other appropriate materials.	A system that combines **some** of the following aspects: programming, digital art, digital devices, electronic components and other appropriate materials.	A system that combines **only two** of the following aspects: programming, digital art, digital devices, electronic components and other appropriate materials.	A system that contains **only one** of the following aspects: programming, digital art, digital devices, electronic components and other appropriate materials.
Evaluation/ Reporting	A clear report is provided on the actions and changes undertaken throughout the development process, including explanation of obstacles overcome, reasons for iterative changes made and advice or tips for others planning to undertake the same project.	A clear report is provided on the actions and changes undertaken throughout the development process, including explanation of obstacles overcome, and reasons for iterative changes made.	Basic reporting on actions undertaken throughout the development process has been done, but does not explain changes or difficulties overcome by the developers.	Basic reporting on actions undertaken throughout the development process has been done, but does not explain changes or difficulties overcome by the developers.

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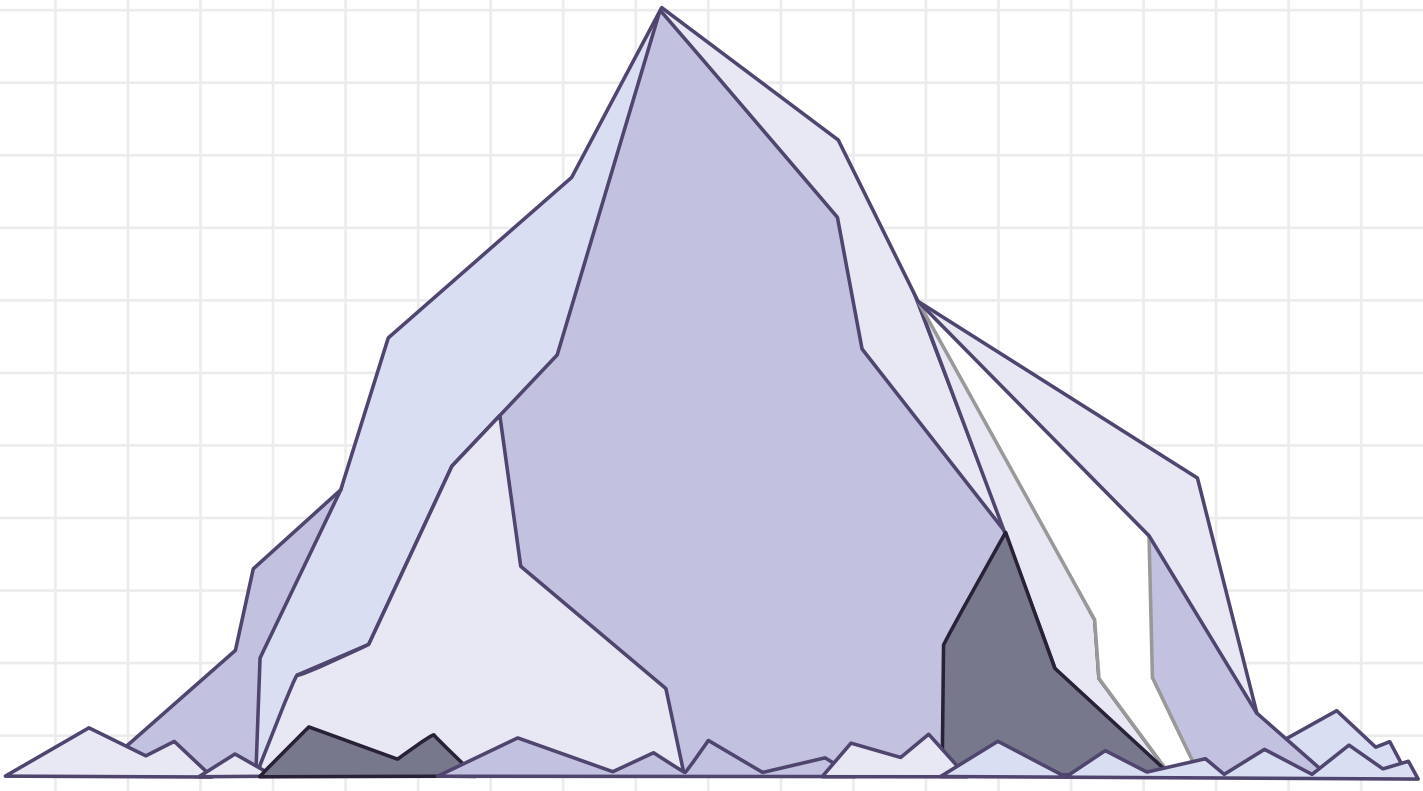
Replication/ Delivery	In-person delivery of the project for other or younger groups of people has been undertaken, and clear, easy-to-follow resources have been produced for this purpose.	Clear, easy-to-follow resources have been produced which would allow others to easily replicate the results of this project. These may be a video or written document.	Some resources have been produced which would allow replication of the results of this project. Resources lack clarity or make assumptions or leaps of intuition which may make them difficult to follow.	No resources have been produced which would allow replication of the results of this project.



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