

only to most accurate one, which improved my research skills and I have spent hours compiling, analysing, and extrapolating data from my research which improved my analysis and problem-solving skills.

I have learned to ask for feedback which has been beneficial and has improved the speed which I can produce a second and improved draft of a document I was writing. Similarly, to my peer evaluation where I presented my project in front of a class and my mentor which I would have never done beforehand. This has been a key component of the success of my project. I can improve on this by asking more for this help like the paragraph above suggests but I am incredibly happy with the improvement I have made.

In my research stage I found that the documents and information which I enjoyed working with the most in my scientific research were proofs and theorems, as the data was presented in a general way so that I did not have to blindly believe what someone was saying without understanding what this person meant. This came most useful when I was researching the functioning of batteries. At the beginning of my project, I was unsure of what I would like to do in my future and the coming years, but this independent research has allowed me to discover that math the best subject for me.

If I were to do a similar project again, which I most likely will, and gladly. I would ask myself a clearer question to begin with and define what I was wanting to find out so that I could look back to my question and know what to do. I had to change my question a few times in this project because of this. I would also email and phone, contact the people I intend to interview much sooner in the process as I believe I could have done it sooner if I had the confidence. I would also ask for more help in the beginning stages to an extent that I would benefit from, but not rely on, and I would slightly tweak my plan as I would work independently at home more.

Overall, this has been a fantastic project which I happy to have completed despite the things I could have done differently which I will act on the next time I do something similar. Those mistakes and barriers have been a key component in the development of myself and which I see as a necessary step for construction of the abilities I now hold and the ableness to view my strong points and the areas I can improve in to continue my development in the future.

Interdisciplinary Project**Assessor Report**

Candidate name _

Candidate number _

Subject area _ Languages

Centre _

| Project proposal | Tick as appropriate |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Grade C criteria | |
| The title and aims of the project. | ✓ |
| Clear aims and reasoned arguments to support the relevance and practicability of the project. | ✓ |
| Identification of opportunities for: | |
| • own skills development | ✓ |
| • collaborative working | ✓ |
| • accessing less familiar learning environments | ✓ |
| • application of subject knowledge in a broad context | ✓ |
| • use of knowledge and skills across different disciplines | ✓ |
| • making connections between subject knowledge and the wider world | ✓ |
| Evidence of the ability to communicate clearly and concisely in advocating the proposal. | ✓ |
| Grade A criteria, includes all above plus | |
| Well-conceived proposal which sets creative and challenging goals which are at the same time realistic, achievable, and practicable. | ✓ |
| Robust and carefully argued justification of the proposal. | ✓ |
| Substantial links and understanding of possible connections across disciplines contributing to the project. | ✓ |
| Comments | |
| As a young scientist with two languages this project encouraged him to explore the 'ethics' question around minerals that is not explored in the science classrooms is taking his studies to the next level by using his language skills he will be able to access information and share information with parties that would usually only have access to information, accounts and evidence in one language. | |

| Project plan | Tick as appropriate |
|----------------------------------------------------------------------------------------------------------------------|----------------------------|
| Grade C criteria | |
| Development of clear project objectives in line with the project proposal. | ✓ |
| Relevant and detailed planning strands to enable the project to be implemented, monitored, presented, and evaluated. | ✓ |
| Realistic timescales and achievable milestones for each stage of the project. | ✓ |

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| Clear identification of resources needed, research methodologies to be used, opportunities for support and feedback. | ✓ |
| Grade A criteria, includes all above plus | |
| Careful selection and effective use of research/investigation techniques. | ✓ |
| Anticipation of probable and possible factors which may impact on the project. | ✓ |
| Clear identification of dependencies or reliance on the success of other strands of work and of necessary adjustments to the plan. | ✓ |
| Outline the process for achieving own identified development needs. | ✓ |
| Comments | |
| All relevant contacts and logical timeline for aims of project. | |

| Presentation of project findings/product | Tick as appropriate |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Grade C criteria | |
| Evidence of effective and critical use of — resources, research methodologies, information and time management, prioritization, problem solving approach to reach objectives, feedback, collaborative approaches, self-monitoring. | ✓ |
| Application of specialist and interdisciplinary subject knowledge to establish meaningful connections within the broad context. | ✓ |
| Clear presentation of main findings/outcomes. | ✓ |
| Grade A criteria, includes all above plus | |
| Critical thinking, analysis and reflection used at key stages in the project to construct rigorous arguments, draw convincing, well supported conclusions, identify and resolve issues. | ✓ |
| Skilful and creative use of resources, including people, information and learning context to progress the project. | ✓ |
| Accurate and deepening of understanding through application of subject knowledge in the chosen context, with meaningful connections well established. | ✓ |
| Comments | |
| Candidate does not detail the level of research conducted – new technologies, mining, conflict, economic implications, international trade and relations. I was very impressed! To ensure his project has impact he has tailored his presentation to try to reach the relevant audiences, which was not easy but he shows determination and resilience in his efforts to convince the relevant people that it is our responsibility to make progress in new technologies ethical first. | |

| Evaluation of project | Tick as appropriate |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| Grade C criteria | |
| A critical and justified evaluation of all stages of the project process — planning, implementation, and findings/outcomes in terms of strengths, weaknesses and learning points. | ✓ |
| Effective use of chosen communication method(s). | ✓ |
| Grade A criteria, includes all above plus | |

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| Incisive, well-balanced evaluation of the project outcome against project aims, supported convincingly by well selected evidence. | ✓ |
| Careful choice and skilful use of communication and presentation methods(s). | ✓ |
| Comments | |
| The candidate acknowledges development of scientific knowledge and evaluates success of project on a personal level. He gives an insightful mention of how the scientists did not take personal responsibility for the ethical implications on the developing world, which has clearly motivated the candidate, demonstrating the success of this project. | |

| Self-evaluation of generic/cognitive skills development | Tick as appropriate |
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| Grade C criteria | |
| A critical evaluation of own skills development against the list of specified generic/cognitive skills. | ✓ |
| A reasoned evaluation of own strengths and key goals for development in the specified list of generic/cognitive skills, which takes account of feedback sought and evidenced from others throughout the project. | ✓ |
| Grade A criteria, includes all above plus | |
| Insightful, balanced, and well-structured self-evaluation of own development. | ✓ |
| Assertive and justified use of feedback from others in evaluation and identification of development areas. | ✓ |
| Comments | |
| Clear identification of skills and growth. | |

The overall grade will be:

- A. indicative of a highly competent performance which meets the additional Grade A criteria and consistently demonstrated a high degree of autonomy, initiative, and effective information management across the five pieces

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| Overall Grade Awarded | A |
| Additional Comments/Overview | |
| <p>Candidate has produced an excellent project meeting the objectives – progression in science vs ethics. This is an area of interest for young scientists, the more experienced scientists were less likely to acknowledge the implications on others linked to their advances. The financial and economic implications and trade that he highlighted demonstrates how the candidate considered many areas over and above that of his initial project.</p> | |

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| Assessor signature | | Date April 2022 |
| Internal verifier signature | | Date April 2022 |