



The Scottish Baccalaureate in Science

Interdisciplinary Project- Exemplar 6

“Blood donation and transfusion”

Grade: C

Science: Interdisciplinary Project

Proposal

Candidate name									
SCN									
Centre name									
Assessor name									
Project title	Blood donation and transfusion								
<p>Project outline (<i>what it is you want to do and how will you go about it</i>)</p> <p>I want to find out how each blood group works and what makes it specific to certain people. In doing this I am going to be involved in arranging the blood transfusion bus coming to my school in April for 6th years. I am also going to be able to talk to the nurses involved.</p> <p>I will also set up a blood donation t shirt raffle. So everyone who is willing to give blood has a chance of winning a t-shirt.</p> <p>I will also carry out an experiment about blood in front of other biology classes.</p> <p>I hope to increase awareness of the need for blood donations.</p>									
<p>Reasons for choosing this project (<i>e.g. personal interest, future plans, links to other subjects you are studying/ have studied</i>)</p> <p>The reason I decided on blood transfusion is that I have always been fascinated by blood and how it can save lives. I also love biology and how the human body works. In the future, I hope to go to University and go off to study a nursing degree and eventually become a nurse.</p>									
<p>The broad contexts this project will cover are</p> <p> <input checked="" type="checkbox"/> Citizenship <input type="checkbox"/> Enterprise <input checked="" type="checkbox"/> Employability <input type="checkbox"/> Economic development <input type="checkbox"/> Sustainable development </p>									
<p>Learning environments I will access are</p> <p> Blood transfusion bus Internet Science department in school Blood transfusion service Books School nurses Science teachers NHS Scotland Newspapers </p>									

How I will use my knowledge of science/technology

Inform others about how blood donations are carried out.

Inform others about the importance of donating blood and why it is needed.

Access the internet for research on my topic.

I have a basic understanding of what blood actually is and its importance from Standard Grade biology.

The skills I will develop and/or improve in the course of this project are:

(carry out a short analysis of your current strengths and weaknesses in the skills areas below and how you think your project will allow you to develop and/or improve these skills)

- *application of subject knowledge and understanding*
- *research skills – analysis and evaluation*
- *interpersonal skills – negotiation and collaboration*
- *planning: time, resource and information management*
- *independent learning – autonomy and challenge in own learning*
- *problem solving – critical thinking: logical and creative approaches*
- *presentation skills*
- *self evaluation – recognition of own skills development and future areas for development*
- I have a basic knowledge and understanding about what blood actually is and its importance to human life. Throughout my project I have been building on my knowledge and understanding of the process in which blood is donated and transfused into someone else.
- I am not confident about performing an experiment in front of 4th year pupils because I don't think that I am great at experimental work but I hope in doing this I will better my skills for future experiments and become a lot more confident in doing things myself. I am not extremely confident in speaking to a large group of people alone and hopefully by the end of this project I will feel a lot better to speak in front of a large group.
- I am good at negotiation and as I continue with the project I will become a lot more skilled at it. I have been in contact through emails with a person from the blood transfusion team.
- I have a wide range of resources I can use for example: internet, science teachers, school nurses and the blood transfusion service.
- It takes a lot of time and planning to make a PowerPoint on blood donation and transfusion, make eye catching posters for donating blood and to arrange and carry out an experiment to demonstrate for 4th year pupils.
- It's important to me to meet appropriate deadlines and to be organized.
- It's important that I raise awareness about the importance of donating blood.

- Trying to get in contact through emails to people that work for the blood transfusion service. Also, the time it takes them to respond may be an area of concern.
- I think that I am ok at problem solving. If I come up against an issue I will try to sort it out and if I cant I will try working around it.
- I am not very comfortable with public speaking. I have done presentations in class before in groups but it is not one of my strengths. Making PowerPoints is not another one of my strengths. I tend to make them too long or go a bit off track.
- I feel as if I can look at my work with a critical approach and if there's a problem I will think of logical and creative solutions to improve my work.

Assessor feedback to candidate

I think this is a very worthwhile project. It taps into your plans for the future. It will involve you working with others outwith the school environment. It will allow you to make connections between your subjects and the outside world. You will develop many skills during the project.

You have a clear idea of the timescales and are confident about tapping into the agenda of others. This will help to ensure the success of your project.

This is a well conceived proposal, reflecting your own area of interest. It sits clearly within the broad contexts of citizenship and employability.

It will have an impact on others on several levels by improving donation awareness within the school community. Given the growing acknowledgement of the problems surrounding poor levels of donated blood in Scotland, all knowledge will be useful to the community.

You have justified well the aims of the project and have demonstrated how your knowledge of your subject will be enhanced and put to use. This was all clear during discussion too.

You have identified opportunities for personal skill development, and have shown a good appreciation of where your skill level is at present and where you think it needs to improve.

You have identified much scope for collaborative work within and outwith school and show a good understanding of the possible links between school subjects and the wider world. Your intention to make use of your existing contacts and your understanding of the need to develop new contacts is another example of your appreciation of the journey you will undertake in the successful completion of this.

Verifier comments

This is a good, innovative project which suits your future needs and development well. It will give you plenty of opportunity to improve your event organisation and collaborative skills. You have thought of ways to diversify what you will gain and contribute to this project.

Proposal approved	yes	Further work required	none
Candidate signature			Date
Assessor signature			Date

Science: Interdisciplinary Project

Plan

Candidate name									
SCN									
Centre name									
Assessor name									
Project title	Blood donation and transfusion								
<p>Is this a group project? yes <input type="checkbox"/> no <input checked="" type="checkbox"/></p> <p>If a group project my individual role or responsibilities will be:</p>									
<p>Timescales <i>(this should be a detailed timeline and any separate spreadsheets or charts should be included as evidence)</i></p> <p>Start – September 2011 Proposal – 21/10/2011 Contact blood transfusion service for t-shirts – 10/10/2011 Deadline for reply – 11/10/2011 Arrange delivery of T-shirts – 16/10/2011 Contact blood transfusion service for leaflets – 23/01/2012 Deadline for reply – 20/02/2012 Arrange delivery of leaflets – 24/02/2012 PowerPoint Completion – 16/03/2012 Blood Bus Arrival – 26/04/2012 Finish – 26/03/2012</p>									
<p>Planning <i>(how you are going to meet the agreed objectives of your project)</i></p> <p>I will try my absolute best to stick with the agreed objectives of my proposal, only completing relevant work. I will meet all of my deadlines so that I do not fall behind or lose track of my timescale. I will only contact organizations, through emails, that are involved with safely carrying out blood donations and transfusions on patients. If the organisations reply back to me, I will take a note of any information they give and use it to build on my project. If the organisations don't reply I will resend the email and hope that they reply if asked a second time. I will continue to keep my mentor up to date with all my plans to ensure that if I make a mistake I can ask for guidance to improve my project and skills. I will make use of several public search engines on the internet to search key phrases related to my project, including blood groups, blood donation and blood transfusion,</p>									

which will provide a vast quantity of information from a wide range of resources that will benefit my project.

I will only approach those organisations involved with blood donation and transfusion, as these are areas of particular interest to me for my project.

I will take note of all contacted organisations and all replies from them; this will ensure that my project is reliable.

For my research I will mainly use the internet as this is the most efficient and accessible source of information. I will use the websites of the organisation I am in contact with to gather reliable, up to date information.

I will research blood donation and blood transfusions. I will spend time on each of them so that I don't become mixed up between them. I will do this by organizing my notes and keeping them separated.

I will then decide what I should include in my presentation: what is blood, types of blood groups, about donating blood, after donating and why is it used.

The main information I find from the internet will be used in my presentation using Microsoft Office PowerPoint.

I will allow time at the end of my presentation for the audience to ask any questions.

Resources (e.g. people, materials, places)

I will use various books and websites for research; this will most likely be my main source of information to use in my project.

I will use the school and public library to research all aspects of blood donations and blood transfusions.

I will contact people from the Scottish National Blood Transfusion Service to gain extra insight from their opinions and experience.

I will need to negotiate with people from the Scottish National Blood Transfusion Service to allow me to give out their Give Blood t-shirts.

I will also need to get in contact with people from the Scottish National Blood Transfusion Service to ask them if they could send me t-shirts and leaflets.

I will use various books and websites for research; this will most likely be my main source of information.

I will pay close attention to the News and regularly read through newspapers to take note of any related articles about blood donations and transfusions.

Research methods (e.g. contacting companies, surveys, focus groups, experimentation)

I will use the internet as it will allow me to quickly acquire information on almost any aspect of my research.

I will use the school and public library to access books, papers and any other valuable sources of information to help me with my presentation.

I will also contact people who work with donations and transfusions.

I will also gather any information from teachers in the science department and use it in my presentation.

Presentation

- **Who do I think will benefit from listening/reading/looking at my presentation of my project findings/product?**

I will be presenting my final product to any interested members of staff and pupils within the school. I will also be presenting my project to certain S4 biology classes to increase awareness for the need of blood donations in Scotland and hope when they are old enough to donate in the future, that they do.

I will be helping arrange the Scottish National Blood Transfusion Bus to come to the school in April. All 6th years will be able to donate and any 17 year olds in 5th year. I will have to contact the Scottish National Blood Transfusion Service to arrange a date, before the bus comes, to come and speak to all 6th years about donating. Along with my presentation I hope this will increase awareness to give blood and hope that people will donate regularly.

- **What methods are appropriate to my audience(s) (e.g. demonstration, presentation software, websites, oral, report, piece of theatre, DVD, wiki/blog or any combination)**

My presentation will be created using Microsoft PowerPoint. This allows me to incorporate not only the written information, but also any images I may have. It also allows the audience not to get bored.

I will contact a person via email from the Scottish National Blood Transfusion Service to send posters. I will display the posters around the school before the bus comes and this will remind everyone to donate.

I will organize the times for people to donate with the help of another member of staff.

Dependencies (what is required for your project to go ahead i.e. reliance on other people or resources, steps in plan that must be completed before starting the next step)

The Scottish National Blood Transfusion Service that I have contacted for Give Blood t-shirts and information leaflets.

The internet, books and newspapers, to find out any relevant information.

The cooperation of teachers of the 3 science departments and my mentor.

Any other contacts I am in correspondence with.

Another teacher who arranges the blood bus to come every year.

Contingencies

Any anticipated problems

- There may be a lack of interest in my final presentation from staff members and pupils.
- There could be a lack of relevant information on my chosen

My plans for overcoming the anticipated problems.

Try to approach teachers and pupils who are willing to donate blood.

Carry out research using as many resources as I can find.

<p>subject.</p> <ul style="list-style-type: none"> • The Scottish National Blood Transfusion Service may not reply to any of my emails. • The blood experiment that was ordered does not arrive in enough time. • Problems may arise with the date of the blood bus e.g. exams or interviews 	<p>I will ensure that I have as many sources and try to carry out as much independent research as possible. If they do not reply, I will contact them again.</p> <p>I will try to focus on other aspects of my project and make them better.</p> <p>I will try my best to be there on the date but if I have an interview for university or an exam. I will have to go. If that happens I will delegate a member of staff to be there.</p>
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Method for recording my skills development and future areas for improvement

Throughout my project I will take note of those areas where my strengths and weaknesses lie. I will then focus on and try to improve on the areas of weakness. I will then self evaluate these areas in more depth as the project proceeds to see if I have been successful in my attempt to improve. Overall, this will help my independent learning for the future. It will also help in the way I find information and remember it.

Also, throughout my project I will know in more depths where my strengths lie and will hopefully become more skilled than before.

Assessor feedback to candidate

You have had to set some fairly flexible deadlines for each stage of your project which are fine given the workload you have and the challenges you will face in organising meetings with contacts. This is also appropriate given the schedule of the blood bus and that you have to fit round that. You have taken consideration of your own commitments and those of the people you wish to contact throughout the plan. You have identified a substantial number of contacts and resources who you can use to gather information. You have also thought about including some relevant practical work to support the awareness raising. Make sure you are constantly monitoring the progress of your project and ensure you stick to the deadlines as closely as possible.

Verifiers comments

You have been very honest in your evaluation of current strengths and have really thought about what you can develop and gain from this. You have lots of collaborative opportunity which will use your strength in communication to help you build on other less well developed skills.

Plan approved	yes	Further work required	none
Candidate signature		Date	
Assessor signature		Date	

Science: Interdisciplinary Project

Presentation of Project Findings/Product

Candidate name	
SCN	
Centre name	
Assessor name	
Project title	Blood donation and transfusion

How I presented my project findings *(describe in detail how you presented your project findings and explain the choices you have made with regard to your presentation method(s) and audience(s))*

I have made use of the internet for mostly all of my research. I mainly looked at the Give Blood website and the NHS website, where all the facts are up to date. I visited the school library and public library in my local area for any related books which could help to provide more information on blood and also any information that websites could not provide.

I presented my information in the form of a presentation, using Microsoft Office PowerPoint. It is the most efficient way to show my information as it engaged the audience to ensure that they did not become bored. The presentation took place in the school's lecture theatre and in classes, as this allowed me to present to a fairly large audience and make use of a projector for my PowerPoint to be shown on. When presenting my information to certain S4 biology classes and teachers, I handed out leaflets about blood donation to ensure that the audience remained interested. Giving out the leaflets at the end allowed the audience to take something away and read over. Hopefully in doing this they are more aware of the need for blood donations and will become regular donors.

To ensure everything ran on schedule I had to maintain a consistently high work ethic. My workload increased nearer the end of my project. But I effectively managed to cope very well and managed to finish all tasks for the project.

Assessor feedback to candidate

You have made good use of the resources available to you and have shown maturity in juggling your various interviews and other priorities to achieve your goals.

You have shown yourself capable of fruitful interaction with outside agencies and this has enhanced your product.

You have demonstrated that you can make the necessary links between the information you have gathered, the contacts you have made and the overall goal.

Your presentation was clear and will be used in classes after you leave.

You were resourceful throughout the project and ensured you had a variety of sources to use.

You have negotiated well with others to ensure the project is well organised and the use of the personal approach will hopefully increase the number of donations.

Verification Comments

You have showed resilience and determination in this project to overcome the challenges you have faced. Prioritising has been something you have dealt with well, still allowing time for all your aims to be completed timeously

Candidate signature

Date

Assessor signature

Date

Science: Interdisciplinary Project

Evaluation of project

Candidate name									
SCN									
Centre name									
Assessor name									
Project title	Blood donation and transfusion								
<p>How successful has my project been overall? (<i>consider the strengths, weaknesses and learning points of your planning, implementation and findings/outcomes giving examples to support your comments</i>)</p> <p>My project plan was to raise awareness in the importance of blood donation. In doing this I have developed skills and knowledge that will help me in my future career, nursing. I believe I have been successful in achieving all aspects of my project. I believe I have also exceeded my expectations for what I would learn from the project e.g. I have become a lot better and more confident in speaking to an audience.</p> <p>My initial proposal was structured which helped me to remain focused on the outcomes of my project and keep track of my progress. I used the proposal to check I was doing everything that I had proposed, while also adding to it, slightly changing it and developing my project. During my project I noted any problems that I had and tried to find solutions.</p> <ul style="list-style-type: none">• When I started making up my PowerPoint presentation I put a bit too much information in which made it too long and made me go off track with what I was trying to say and get across.• I organised a meeting with my mentor to express my concerns and ask for advice. This allowed me to better my project and to keep my mentor up to date with developments, problems and changes.• I then emailed the Scottish National Blood Transfusion Service and their Donor Recruitment and Publicity Officer replied. I told her about my Baccalaureate project and she was keen to help. I asked her if she could send me a couple of Give Blood t-shirts for people to win if they donated. I also asked for information leaflets to give out to classes that I do my PowerPoint to. I received 2 posters, 9 t-shirts, 30 leaflets and 30 small booklets. I am extremely grateful for her co-operation.• I hope when the blood bus comes that everything will run smoothly and that a lot of people will donate.• Before I made up my proposal I decided to donate blood myself. This has made me appreciate how important it actually is to give blood. I did this in September and have given blood regularly. So far I have given 3 times and									

found out that I am O+, which is the most common and the most frequently needed blood group in Scotland. I am proud to say that I am a regular donor. I hope that the 6th years and teachers also donate because there is nothing scary about it.

- I was going to be doing a blood based experiment in front of 4th year biology classes but unfortunately the experiment did not come in time. So instead I focused more on other areas of my project.

How effective were my communication methods throughout the project?

I needed to continually negotiate and give feedback to my mentor throughout the process. This helped me get feedback. I have learned although sending an email is easier you sometimes have to phone for an immediate answer quickly. I had to phone a person from the Scottish National Blood Transfusion Service to arrange a date that they would be able to come and give a talk because it wasn't in the packet sent to the teacher.

I sent an email to the National Blood Transfusion Service and surprisingly got a quick reply. This meant that I didn't have to worry about what to do if I didn't receive a reply.

I arranged to meet with a staff member to discuss how I could help her arrange the blood bus. I soon realised it was easier than I thought as she had already been in contact and set up a date. All I had to do was put up posters and arrange times for staff and pupils to come and donate.

I also put up posters around the school where they would be seen to let 6th years and teachers know the blood bus was coming. This was a very effective method as it allowed everyone to see rather than just me telling people. Nearer the time I will ask for the date to be put in the bulletin, which is read every morning in registration. I have developed my communication skills throughout the process. I now feel more confident about phoning and talking to people. This has been very beneficial for me and throughout my project and I am sure it will be a useful skill throughout my life.

Is there any aspect of my project that could be taken further? What might my next steps be?

Donating blood myself could be taken further. I could do this by regularly donating every time I know there is a session in my local area.

I could also present my PowerPoint to other groups within the town and once I have left 6th year other biology teachers could use it to teach to their class.

Candidate signature	Date	
Assessor signature	Date	

Science: Interdisciplinary Project

Self evaluation of generic and cognitive skills development

Candidate name									
SCN									
Centre name									
Assessor name									
Project title	Blood donation and transfusion								

In evaluating your skills consider the skills analysis which you carried out at the Proposal stage and how you said you would develop and improve these skills. Now refer to your reflective diary/log/blog and feedback you have received and evaluate how you have developed and/or improved these skills through the work on your Interdisciplinary Project.

Application of subject knowledge and understanding

(Think about practical uses for the science you have learned. How did you use your knowledge of science/technology effectively to help you carry out various aspects of your project and how it related to your chosen broad context(s)?)

I have applied my knowledge of biology on many occasions throughout this project for example when researching what blood is and its importance for my PowerPoint presentation. I drew upon my previous knowledge that I have gained over the years and made educated decisions as to what was relevant and interesting and at a suitable level for the people who would learn about it, in this case teachers and 4th years. I also used my knowledge of technology to make good use of the computer as the majority of my project was carried out using a computer. I greatly improved my knowledge of Microsoft PowerPoint and Microsoft Word in the making of my presentation and the write up to my project. These skills will be very useful for me in the future and now, as I plan to go to university and study for a degree in nursing. As time goes on, technology will always be moving forward.

Research skills – analysis and evaluation

(Think about the research process. How did you plan, carry out, analyse and evaluate your research? You should evaluate your research methodologies, tools, resources and contacts, data recording and referencing, reliability and usefulness of data.)

I planned my research by thinking about what I wanted to learn and how I could increase awareness of the need for blood donations. At the beginning of my background research I aimed to learn about what blood was, how to donate and the benefits of blood transfusions to other peoples lives. All relevant research I found on the internet I used in my PowerPoint.

My research was mainly done using the information gathered from the internet from websites such as scot blood and the NHS page. I got the contact information from the scot blood web page. This allowed me to make contact with their Donor Recruitment and Publicity Officer and was able to receive t-shirts and leaflets. My research was mainly done using the information gathered from the internet. The information collected was recorded in a notebook and the website was referenced in order to revisit it if necessary to gain more information. If there were large pieces of evidence I printed them out and used a highlighter to highlight relevant information and important figures.

When carrying out my research, on blood donations and transfusions, on the internet, I thought it was important to analyse the reliability of sources. Information was utilised if it was of relevance to my project and needed within my PowerPoint presentation, this ensured relevance and usefulness.

The overall research process was successful as I made use of a variety of resources to collect the information I needed. Most of the resources were easily accessed at all times, home and school.

Interpersonal skills – negotiate and collaborate

(Think about how you considered other peoples' views/feedback, discussed issues of concern, reached a solution where needed, adjusted your approach in response to a situation/environment, showed positive self belief and had the confidence to offer and ask for support.)

Planning – time, resource and information management

(Think about your time management. How did you set targets, monitor/record progress, consider any probable barriers to achievement and take steps to minimise them?)

My time management however well planned did not work out as I had imagined. I had to put my project on hold for a couple of weeks as I felt I was falling behind on schoolwork and had tests to study for. This set me back slightly on my timescale, however with time and focus I reapplied myself to this project once I passed my tests and was up to date on homework due dates, I managed to recover and get back on track for reaching my goal.

Independent learning – autonomy and challenge in own learning

(Think about how you used your skills to make things happen, took the initiative to establish links with other learning environments/opportunities and looked for challenges rather than taking the easy option.)

I used the computing skills I had formed over the years to produce a PowerPoint presentation that will be shown to 4th years in the school.

Throughout my project I have utilised many skills I possess to further my work to the next level, for example, speaking to a large group of people.

To do this I ensured that I had an impressive case and that they would listen to my offer and consider it for the future and I hope that they donate. I was determined to succeed and was not willing to give up easily.

I also had to contact the Scottish National Blood Transfusion Service. I did this via email. This was the most efficient way for me as they have many contact numbers

and if I had phoned I may have been redirected many times.

I also went round all teachers in the school to persuade them to donate. This was very successful as more teachers are willing to donate compared to last year. Also many of the 6th years are showing a great interest in donating and this is reassuring me that I have raised some awareness about the importance of donating.

Problem solving – creative approaches; critical thinking; logical approaches

(Think about your problem solving skills. How did you generate and explore ideas, use logical and creative approaches, analyse source materials in order to support findings, reflect on problems and possible contributory factors and think critically about possible actions/changes?)

At the start of my project I defined the issue that I wanted to address as being “The importance of blood donations and transfusions”. I then went on to analyse what blood is and what are blood donations and blood transfusions.

Next, I established my goals in terms of how you can donate blood and what happens to the blood after donating. I was also in contact with my mentor who I was able to bounce ideas off which was very important and useful.

When thinking of ways to contact the blood transfusion service I decided to look on their official website and immediately found an email address. I then emailed them and within days I got a response. Nearer the end of my project I had to contact them again as the package that was sent to the school because it did not contain the date they were coming to give a talk to 6th years. So, I contacted them by phoning them as I knew what number to call, as I had an email from their Donor Recruitment and Publicity Officer when I contacted them, the email contained a contact number to a person that arranges the blood bus to come to schools. I immediately called and was able to get a date.

A problem I came up against was that the blood experiment that was ordered did not come in time to be completed. Instead of doing the experiment I became a lot more involved in arranging the blood bus coming to the school. I decided that once the experiment does come that I will do it as it will further my experimental skills which is beneficial. Also, it would be a shame to waste the use of it as it was ordered for my project.

My problem solving skills have improved over the course of this project, I already considered them to be good but I have seen them improve even with the little problems I solved during my project.

Presentation skills

(Think about how you presented your findings. Evaluate your presentation method(s), choice of audience(s), layout, structure, and degree of formality and choice of content. Did your presentation include information/ideas/reflections with supporting detail in a logical order and reach a reasoned conclusion?)

I produced one PowerPoint presentation to present to a couple of 5th year biology classes. At the end of my PowerPoint I added a video about the products of blood after donating and how they are used. I decided to do this as I wanted to keep the pupils interested.

Also once I presented my PowerPoint, I handed out information leaflets about donating. I did this because I thought they would take them away and think about

donating when they become 17. They will have the chance to do this once they are in 6th year and the blood bus comes.

I feel that it is important to increase awareness to the younger pupils as not many young people donate. So, I hope my presentation and leaflets make them think about donating.

Self evaluation – recognition of own skills development and future areas for development

(Think about how you have developed throughout your project. How did you deal with feedback, praise, setbacks and criticism and their impact on your own development of knowledge, skills and understanding? To what extent did you ask for feedback, learn from experiences and how will you use these to inform future progress?)

I asked for feedback regularly throughout my project from my mentor. I have always been very open to feedback and welcomed constructive criticism as this has played a part in helping me to progress and improve skills in the project and further study. I feel that I handled any setbacks I faced well, moving on and getting the required work done while still working to overcome these setbacks and problem solve my way out of them. Even though there weren't any major setbacks. I have learned a great deal doing this project, not only in my own skills but what I have discovered about blood donations and transfusions.

I feel I have made a great development throughout the course of this project, I am much more confident at tackling new tasks alone but I'm not scared to ask for help when it is needed. I will definitely keep in mind all of the lessons I have learned while I did this project. I have also become a lot more confident in speaking to people that I do not know. I have definitely overcome my fear of speaking in front of a large group of people. This is one thing which will definitely benefit me when I go to university.

Reflection on my experiences throughout this project *(e.g. things you feel you have achieved, things you have done that you feel particularly proud of, anything you would do differently were you to do something similar in future)*

I have pride in the achievements I have made whilst carrying out this project. I now possess improved communication skills, improved PowerPoint skills and I am less apprehensive when addressing large groups of people. Contacting people from organisations from outside the school environment has improved these communication skills, and taught me the importance of organisation and time-management.

Skills that I have used in this project that I would like to develop further *(e.g. using skills in even more challenging situations, more working on your own, more team working)*

I would enjoy more independent working under more challenging situations. I think this would be beneficial for life in university. I also wish to further develop my communication skills as I realise the how useful these skills are going to be in both university and the workplace.

Science: Interdisciplinary Project

Assessor Report

Candidate name

Candidate number

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 science 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 of 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	
<p>The candidate chose an interesting project which fitted well with her interests within and outwith school. She proposed some ideas which provided her with less familiar learning environments and allowed her to develop a number of new skills whilst also developing her current ones.</p> <p>There were opportunities for working collaboratively with school staff, pupils and outside agencies and she set some challenging targets for herself to allow her to achieve this.</p> <p>Her presentation method is very worthwhile and aims to improve awareness and support of the blood donation.</p> <p>Her project justification has given very valuable and beneficial reasons for undertaking this project.</p>	

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.	✓
Clear identification of resources needed, research methodologies to be used, opportunities for support and feedback.	✓
Grade A criteria, includes all of 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	
<p>This is a worthwhile project, giving lots of scope for cross curricular work within school and outwith.</p> <p>The candidate planned well, matching her plan and proposal. She established timelines and acknowledged that there are aspects outwith her control.</p>	

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, prioritisation, 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 of 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	
<p>The candidate has tapped into the needs of others thus helping to ensure the success of her project.</p> <p>Her presentation was clear and informative. It was well received by pupils and staff.</p> <p>She made good use of contacts within and outwith school to progress her project.</p>	

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 of above plus	
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	
<p>The candidate evaluated her project well and was clear on the areas of success and those requiring further work.</p> <p>She met several obstacles and was hostage to the agenda and timeline of others and of her own commitments.</p>	

Self evaluation of generic/cognitive skills development	Tick as appropriate
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 of 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	
The candidate evaluated her skills development well and was receptive to feedback at all times during the process.	

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
- B indicative of a competent Grade C performance across the five pieces, but with some aspects of work meeting the criteria for highly competent performance (as outlined by the Grade A criteria)
- C indicative of a competent performance across the five pieces, with all aspects of the work meeting the criteria identified for Grade C performance

Overall Grade Awarded	C
Additional Comments/Overview This project has developed the candidate's skills, bringing her out of herself and putting her in a better place to cope with the stresses of further education and the world of work. Her ability to self evaluate has improved greatly and she has worked well despite timeline problems to fulfil most of her aims.	
Verification Comments The candidate has clearly gained experience and developed her organisational skills throughout this project and has always remained enthusiastic and committed to its completion. She is now much more aware of the skills she has and has developed strategies to build on the skills which she is developing.	

Assessor signature _____ **Date** _____

Internal verifier signature _____ **Date** _____