

# 2015/16 Candidate record form, production log and assessment record

Level 3 Extended Project (7993) (version 2.0)

Please attach the form to your candidate's work and keep it at the centre or send it to the moderator as required. The declarations should be completed as indicated.

<b>Centre number</b>	<b>Centre name</b>
25270	
<b>Candidate number</b>	<b>Candidate's full name</b>
0330	Curtis Thompson

Work submitted for assessment **must** be the candidate's own. If candidates copy work, allow candidates to copy from them, or cheat in any other way, they may be disqualified.

## Candidate declaration

Have you received help/information from anyone **other than** subject teacher(s) to produce this work?

☒ No ☐ Yes (give details below or on a separate sheet if necessary).

Click here to enter text.

Please list below any books, leaflets or other materials (for example DVDs, software packages, internet information) used to complete this work **not** acknowledged in the work itself. Presenting materials copied from other sources **without acknowledgement** is regarded as deliberate deception.

Click here to enter text.

From time to time we use anonymous examples of candidates' work (in paper form and electronically) within our guidance materials to illustrate particular points. If your work appears in AQA materials in this context and you object to this, please contact us and we will remove it on reasonable notice.

I have read and understood the above. I confirm I produced the attached work without assistance other than that which is acceptable under the scheme of assessment.

## Supervisor declaration

I confirm the candidate's work was conducted under the conditions laid out by the specification. I have authenticated the candidate's work and am satisfied, (to the best of my knowledge) that the work produced is solely that of the candidate.

<b>Candidate number</b>	<b>Candidate's full name</b>
0330	Curtis Thompson

## Submission checklist

### To be completed by the supervisor

Extended Project **working** title [Click here to enter text.](#)

Extended Project **final** title [Click here to enter text.](#)

Form of project

☐ Either written report

☐ Or [Click here to enter text.](#) and accompanying written report

Is this project part of a group project?

☐ No

☐ Yes If 'Yes', give brief details [Click here to enter text.](#)

**Please note** that failure to complete or submit a compulsory element may result in a mark of zero being awarded.

Select/tick	Items that <b>must</b> be included	Notes
<input type="checkbox"/>	1. A signed and completed <i>Candidate record form, production log and assessment record</i>	This document. All pages must be completed.
<input type="checkbox"/>	2. Research based written report	If the project product is an artefact or a production, an accompanying research based written report is also required.
<input type="checkbox"/>	3. Evidence of the project product	Eg photographs of artefact, investigation or production; a piece of creative writing (artefact); research based written report.
<input type="checkbox"/>	4. Evidence of a presentation within the production log	Presentation on the project process. Where the project product is itself a presentation (for a specified audience), a presentation on the project process must also be delivered to a non-specialist audience

## The taught skills element

### To be completed by the supervisor

#### Outline details of taught skills

Record here details of relevant skills taught in a class/group and details of relevant skills taught individually to this candidate as described in the specification. Continue on a separate sheet if necessary.

From September, every student was allocated a supervisor and sessions were delivered in a seminar style which incorporated a programme of taught skills. In addition a programme of whole cohort lectures covered, research skills, critical thinking, analysis and evaluation skills, and presentation skills, as well as how to reference and produce a bibliography.

The taught skills programme 2015-2016.

Developing questions
<ul style="list-style-type: none"> <li>• What makes a good question?</li> <li>• Question words, what do they imply?</li> <li>• How to narrow your focus</li> </ul>
Critical Thinking
<ul style="list-style-type: none"> <li>• What is it?</li> <li>• Analysing statistics.</li> <li>• Newspapers and bias in articles</li> </ul>
Research Skills
<ul style="list-style-type: none"> <li>• Learning and resources centre</li> <li>• Using the internet to your advantage</li> </ul>
Conducting your own research
<ul style="list-style-type: none"> <li>• Types of experimentation, questionnaires and interviews</li> <li>• Evaluating research methods</li> <li>• Health and Safety and Ethics</li> <li>• Contacting people</li> <li>• Data representation</li> </ul>
Reading Skills
<ul style="list-style-type: none"> <li>• Note taking techniques; mind maps</li> <li>• Setting smart objectives</li> </ul>
Time Management and Planning
<ul style="list-style-type: none"> <li>• Keeping plans, Gantt charts,</li> <li>• Breaking down tasks</li> <li>• Setting smart objectives</li> </ul>
Writing Skills
<ul style="list-style-type: none"> <li>• Critical and descriptive modes of writing</li> <li>• Writing process and structuring your report</li> </ul>
Editing Skills
<ul style="list-style-type: none"> <li>• Developing critiquing skills</li> </ul>
Becoming a reflective learner
<ul style="list-style-type: none"> <li>• Reflecting on experience</li> <li>• Discussion of EPQ as a process.</li> </ul>
Presentation skills
<ul style="list-style-type: none"> <li>• Recap of the assessment criteria</li> <li>• Speaking skills</li> <li>• Using visual materials in presentation</li> </ul>

**Candidate number**

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**Candidate's full name**

Curtis Thompson

## Record of marks

### To be completed by the supervisor

Marks must be awarded in accordance with the instructions and criteria in the specification.

Summary information to show how the marks have been awarded should be given in the spaces below in addition to comments in other pages of this document and any supporting information in the form of annotations on the candidate's work.

Skill area	Maximum mark	Mark awarded	Supervisor's supporting statement
A01 Manage	10	Click.	Click here to enter text.
A02 Use resources	10	Click.	Click here to enter text.
A03 Develop and realise	20	Click.	Click here to enter text.
A04 Review	10	Click.	Click here to enter text.
Total mark	50	Click.	

### Supervisor's concluding comments

Click here to enter text.

### Internal moderation comments if appropriate

Click here to enter text.

### Supervisor declaration

I confirm that no work assessed for the award of the marks above is also to be submitted, or has been submitted, for any other accredited qualification(s).

## Record of initial ideas

### To be completed by the candidate

This page records initial meeting(s) with your supervisor to agree your project ideas. Additional pages can be submitted if more than one idea has been explored.

#### My idea(s) for topic/title

At first I wanted to do a project around artificial intelligence. One of the main goals of the field is to have general intelligence in computers, which is also something I am very interested in. At the time I was deciding, BBC were doing a series called "Make It Digital" where they looked at different technological things, and one documentary was about when will robots be able to take our jobs. This made me want to look at when we might have computers with general intelligence (and they could really take any job). This is a good topic to look at and lots of different computer scientists will have slightly different opinions on when or if we will have computer with general intelligence of humans. I therefore chose to look at the following for my title: Will we have computers with the general intelligence of humans in the near future? (e.g. 50 years?)

#### My ideas for research and development of my project

- Use the college and university to look at books around artificial intelligence (more specifically general intelligence) – one in particular would be Artificial General Intelligence by Ben Goertzel
- Find articles (newspaper, online, columns) written by experts who give opinion on when we might see general intelligence or developments in the field
- Computing Machinery and Intelligence by Alan Turing (in Mind) would be very helpful, maybe some other journals
- Possible sections of project (covered/researched one at a time)
  - What is intelligence? How do we measure it in computers?
  - What is the history of artificial general intelligence?
  - What is needed of general intelligence? Limitations? Problems?
  - What might the future look like? What are experts saying?
  - My conclusion of the project (but opinions linked throughout)

#### My summary of the comments and advice from my supervisor

- I don't have to restrict my title down now to what my final title will be as long as I have a good idea of what I am researching
- Try to use lots of different methods of research for my project

#### Modifications I have made as a result of my discussion with my supervisor

- My working title will be based on will we get artificial general intelligence by a certain date however I won't let that restrict my research – I might give a more specific date when I have done some more initial research
- I will use all of the research ideas I have listed above as well as try to find more information from artificial intelligence journals and from oxford reference

Date 09 October 2015

Candidate number

Candidate's full name

0330

Curtis Thompson

## Part A: Candidate proposal

### To be completed by the candidate

Working title of my Extended Project.

Present the topic to be researched in the form of a short statement/question/hypothesis with clear focus.

Will we have computers with the general intelligence of humans by 2050?

- my initial resources will be

Books from the college and university library

Articles and journals on the internet

- the courses of study or area(s) of personal interest to which the topic relates

Computing A-Level (and Computer Science)

Artificial Intelligence

Programming

- my intended product

A ~5000 word essay answering my final title

Provide details of the courses that you are currently studying

Qualification type	Awarding body & subject
eg A-level, Modern Apprenticeship, BTEC	eg AQA Mathematics, OCR Computing, WJEC English
A-Level	AQA Computing
A-Level	AQA Physics A
A-Level	Edexcel Further Maths

Qualification type	Awarding body & subject
Click to enter text.	Click here to enter text.
Click to enter text.	Click here to enter text.
Click to enter text.	Click here to enter text.
Click to enter text.	Click here to enter text.
Click to enter text.	Click here to enter text.

**Notice to candidate** You must not take part in any unfair practice in the preparation of project work required for assessment and you must understand that to present material copied directly from any book or any other sources without acknowledgement will be regarded as deliberate deception. If you use or attempt to use any unfair practice you will be reported to AQA and you may be disqualified from **all** subjects.

### Candidate declaration

I certify that I have read and understood AQA's Regulations relating to unfair practice as set out in the notice to candidates above.

Date 09 October 2015

Candidate number

0330

Candidate's full name

Curtis Thompson

## Part B: Supervisor's comments on candidate proposal

### To be completed by the supervisor

Please comment below on the validity and feasibility of the candidate proposal (Part A) as an Extended Project

	Supervisor's comments
Indicate the relation to, and development/extension outside of, the main course(s) of study or interest	Curtis has real thirst for knowledge related to his topic area and his recently submitted UCAS application. It is a topic that genuinely enthral him and will help develop understanding of ethical issues in this field.
Comment on the suitability of the proposed initial sources and research base	This is somewhat limited at this time but Curtis does have a plan that has been articulated. Although he hasn't submitted evidence reflecting this, discussion has revealed the extent of work he has done to date. I have every confidence that this will move on considerably over the next period of time.
Confirm that the project is feasible in the proposed timescale and/or indicate any potential difficulties that may prevent the candidate from meeting the assessment objectives	Curtis's initial planning reflects considerable thought given to his research question. There is strong evidence and he has a good track record of good organisation skills that will help to ensure that Curtis keeps to the timescale. He has approached this topic in a balanced and impartial manner despite his existing knowledge, passion and personal opinions – he is clearly interested in carrying out the research and critical analysis required

Indicate the expected format of the project product that will be submitted for assessment

- ☒ Research based written report
- ☐ Artefact (for example prototype, model, artwork, scientific investigation, creative writing) plus written report

Is the project a contribution to a group exercise? ☐ YES ☒ NO

If Yes, confirm that there is a defined individual contribution by the candidate ☐ YES ☐ NO

List the **other** group members below.

Candidate No. [Click.](#)

Candidate Name [Click here to enter text.](#)

Candidate No. [Click.](#)

Candidate Name [Click here to enter text.](#)

Candidate No. [Click.](#)

Candidate Name [Click here to enter text.](#)

Date 16 October 2015

**Candidate number**

0330

**Candidate's full name**

Curtis Thompson

## Part C: Centre coordinator's approval of candidate proposal

**Supervisor's name**

### To be completed by the centre coordinator

If you are acting as both the Centre coordinator and the supervisor, please seek counter signature from a senior colleague

Centre coordinator's comments on the feasibility and acceptability of the proposal (parts A & B) as an Extended Project

This is a fascinating and controversial subject highly suitable for an EPQ. It is clear from the early sections of your log that you are giving careful thought to the direction in which your project will progress however I am disappointed to note the lack of credible sources that you have presented. I am also concerned that the project has the scope to be descriptive rather than analytical and evaluative and you will need to keep a balance between description and evaluation in your final report. You must ensure you give a balanced view in your argument and consult a wide range of sources. Do keep an up to date record of all your activities in the Learning Journal it is a very important planning tool and will give evidence of your independent study and how you have tracked the progress of your project.

You may need to have further discussion with your supervisor in relation to narrowing the focus of the question further so that it will be manageable within the time available and the word limit. It will be important for you to plan carefully to ensure you develop a strong argument and keep the focus on analysis and evaluation of your findings.

It is also important to keep an up to date record of all your activities in the learning journal and will give evidence of your independent study and how you tracked the progress of your project. It is important to show that you have obtained your information from a wide range of sources and are able to evaluate the usefulness and reliability of those sources

☒ Approved

☐ Approved subject to the implementation of the centre coordinator's recommendations

☐ Resubmission required

Date 23 October 2015



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0330	Curtis Thompson

## Planning review

### To be completed by the candidate

This page records your outline plan once your proposal has been approved.

My next steps in planning, researching and deadlines that I will set myself. What I intend to do, by when, what resources I will use and how I will implement the recommendations of the centre co-ordinator (where appropriate). I have done some initial research which has led me to find more sources of information. Based on the feedback from the centre coordinator as well as a discussion with my supervisor and a friend I have decided to narrow my research down to the philosophical arguments about whether we can have artificial intelligence (or machines) which can actually be classed as intelligent as humans. The philosophical arguments also allow me to be more analytical and evaluative as recommended by my centre coordinator. The resources I will be looking at are:

- Ned Block (A), Blockhead Argument, Psychologism and Behaviorism
- Ray Kurzweil (F), The Singularity Is Near
- Hubert Dreyfus (A), What Computers Can't Do
- Kurt Godel (A), 1931
- Drew McDermott (F), How Intelligent Is Deep Blue, NYTimes
- Edsger Dijkstra (F), Science fiction and science reality in computing

My plan is to look at and make notes on 3 of these each week. Also, these may also be of interest to look into:

- Moore's Law
- Brain and artificial neural network structure
- Passing Turing Test
- Definition of intelligence, mind, consciousness

I have set these aims for myself, which I have gone in more details on my planning sheets:

- 9<sup>th</sup> Nov to 29<sup>th</sup> Nov – complete 3 resources per week
- 30<sup>th</sup> Nov to 6<sup>th</sup> Dec – summarise and analyse the resources (if not done during notes)
- 7<sup>th</sup> Dec to 27<sup>th</sup> Dec – write first draft
- 28<sup>th</sup> Dec to 17<sup>th</sup> Jan – extra research
- 17<sup>th</sup> Jan Onwards – essay and project log
- Essay completed by the 4<sup>th</sup> March
- Project Log completed by the 22<sup>nd</sup> March

My summary of the comments and advice from my supervisor

One of the comments I received was to make sure that I know some of the resources that I will be using, and that they are on both sides of the argument so that my final project is not bias.

Another comment was to narrow down my title as the project might possibly be too broad at the moment, it is better to have a more specific, in-depth topic.

**Candidate number**

**Candidate's full name**

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Curtis Thompson

Modifications I have made as a result of my discussion with my supervisor and/or the comments from my centre coordinator

One thing I have done is identify the resources I think I will be using over the next few weeks based on the topics I want to cover and resources that have been recommended by the resources I have already used.

I have also attempted to narrow down my project to the philosophical arguments.

Date 12 November 2015

## Mid-project review

### To be completed by the candidate

This page records your outline plan when you have completed your research.

Is my project following my original plan? How has my plan developed?

My project stuck to the original plan to some extent. I have moved more towards the philosophical elements than I originally thought (first mentioned in the planning review) as well as looking more at neural networks as through the research I found neural networks to be one of the closest methods to actual intelligence.

I followed the plan up to Christmas well however I did not realise how long writing each section of the essay would take so did not have text in all of the sections on the date I expected to. However I have remade my Jan-Feb plan as I have a better idea of how long each part should take, and have also left some gaps just in case I do fall behind the plan. I am expecting to be completely finished by the start of March.

My summary of the comments and advice from my supervisor

My supervisor has said that my project appears to be progressing well and that my writing style can be good at some parts however I need to write consistently good throughout the whole of the essay as I can sometimes fall into a slightly more informal style of writing. They think my ideas on completing the project are good.

Modifications I have made as a result of my discussion with my supervisor at this stage

I have decided I will dedicate more time as my project goes on to looking back at what I have wrote so far and improving the language I use. I will still focus on getting all of the content down for now but as I get closer to finishing I will put more time into improvements. I feel it is better to do this after I have written all of the sections of the essay as it will be easier and quicker for me to just write everything naturally instead of focusing on every word I choose.

My final title and agreed form of project product

"To what extent can the processes of artificial intelligence be considered actual intelligence?"

My final product will be a 5000 word essay answering the title, and a presentation to other students.

My planned next steps to complete my project

This is my plan until the end of February, which I hope to stick to. So far I have managed to follow it. It has tasks and dates I expect to complete them.

#### January Plan:

- 15<sup>th</sup> Jan – Neural Networks Research
- 16<sup>th</sup> Jan – Neural Networks Write-Up
- 17<sup>th</sup> Jan – Finish Chinese Room Write-Up
- 18<sup>th</sup> Jan – Add To Knowledge and Intelligence Research
- 20<sup>th</sup> Jan – Knowledge and Intelligence Write-Up
- 22<sup>nd</sup> Jan – Update Bibliography and Project Log
- 26<sup>th</sup> Jan – My Argument Write-Up
- 28<sup>th</sup> Jan – Conclusion Write-Up
- 31<sup>st</sup> Jan – Notes On Possible Presentation

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- 31<sup>st</sup> Jan – Mid Project Review

February Plan:

- 2<sup>nd</sup> Feb – Finish Defining Intelligence Write-Up
- 5<sup>th</sup> Feb – Finish Human Brain Works Write-Up
- 6<sup>th</sup> Feb – More Notes On Possible Presentation
- 10<sup>th</sup> Feb – Go Over Draft And Improve Language
- 11<sup>th</sup> Feb – Update Bibliography and Project Log
- Then I will be going over draft, improving it, and making notes on what to do with presentation
- 31<sup>st</sup> Feb – Expect To Be Finished With Final Version

Date 01 February 2016

**Candidate number**

0330

**Candidate's full name**

Curtis Thompson

## Project product review

### To be completed by the candidate

This page records the (near) completion of your project product. Outline the successes, failures, additions and/or changes you made as you followed the plan in your mid-project review

Did my project follow my revised plan (from the mid-project review)?

After I revised the plan in the mid project review I was able to stick to it very well as I made sure every small goals I made had enough time to complete, so I did not fall behind the plan. It also meant I have now completed my 5000 word essay on time, by the end of February. Some parts of the plan were smaller than I initially thought so I was ahead of the plan at times and could take breaks.

My summary of the comments and advice from my supervisor at this final stage

My supervisor said my work is very good and that I should be planning for the presentation that I am going to have to do, and not to panic about it.

Modifications I have made as a result of discussion with my supervisor at this final stage

Do I need to do anything else to complete my product?

I had already started to think about what I was going to do in my presentation but I've started to make the actual PowerPoint and plan exactly what things I will say during the presentation.

Date 25 February 2016

## Presentation record part A

### To be completed by the candidate

This page records your presentation and its preparation.

Planned format of my presentation (eg timing, audience, use of visual aids, slides, use of notes, etc.)

- I am planning to do a PowerPoint presentation (slides attached) to approx. 20 people who will not know much about the subject
- The PowerPoint contains 11 slides – each will take approx. a minute to talk about
- The presentation will take approx. 10 minutes, with an extra 5 minutes for questions from the audience
- I have notes of what to say which I will learn before the presentation but I will not use notes during the presentation, only having the PowerPoint to remind me what to say

Planned content of my presentation

- Slides have been attached which outlines the content of the presentation
- The first 3 slides introduce the topic of AI and my project, and why I chose to do the topic
- The next 3 slides talk about the Turing Test, an important part of my project, and the audience gets involved by guessing whether they are talking to a human or computer
- The next slide looks at behaviour and processes, using that as an argument for computers not being intelligent
- The next two slides look at neural networks, which is for computers being intelligent, with diagrams to simply explain about them
- The final two slides are a summary of the project and ask the audience if they have any questions

Diagrams, images and websites (that are not my own) used in the PowerPoint are from:

- <http://www.livescience.com/40196-wildcat-military-robot-video.html>
- [http://www.phonearena.com/reviews/Sony-Xperia-M2-Review\\_id3702](http://www.phonearena.com/reviews/Sony-Xperia-M2-Review_id3702)
- <https://en.wikipedia.org/wiki/R2-D2>
- [https://en.wikipedia.org/wiki/Bender\\_\(Futurama\)](https://en.wikipedia.org/wiki/Bender_(Futurama))
- <http://www.cleverbot.com/>

Modifications I have made as a result of rehearsal and/or discussion with my supervisor

Comments about my presentation from my rehearsal were more about how I delivered it instead of the actual content, since I was told that the content was very good and easy to understand.

One thing I was told to improve on was where I stand while talking. I need to make sure I do not walk around a lot as it could be distracting, and when I do stand still I should make sure I don't stand in the way of any of the text on the PowerPoint - which I did a few times during the rehearsal after pressing to go onto the next slide. I just need to be more aware when I do the actual presentation. Or I could possibly use a remote to change the slides and then I can get out of the way and stay out of the way.

Another thing was using the word 'like' too much. I think this happened because I was just thinking about what to say, so if I keep practicing I will have a better idea of what to say during the final presentation and I should not say 'like' as much. I've already planned what I will roughly say; I just need to keep practicing.

Besides that I was told the presentation was very good and I don't really need to change any of the content of the presentation, and I obviously know what I'm talking about - which is good!

Date 08 March 2016

Candidate number

0330

Candidate's full name

Curtis Thompson

## Presentation record part B

### To be completed by the supervisor

Record and comment below on the delivery of the presentation

	Supervisor's record/comments
The nature of the audience (include numbers of staff, students and others present)	1 member of staff (supervisor) and 10 other students present
The nature of the presentation (include use of notes, use of display items, and use of presentation software)	Microsoft PowerPoint presentation given.
Comment on the content and delivery of the presentation (for example clarity of ideas, structure of presentation, pace, engagement with audience)	This covered on attached document (presentation checklist) All aspects of this were excellent
Comment on the response of the candidate to questions that demonstrated understanding and grasp of the project and/or its production. <b>Give examples of questions asked and answers given.</b>	This covered on attached document (presentation checklist) All aspects of this were excellent. The attached document lists ALL questions asked and responses given and makes a judgement on the quality of all aspects.

Date 16 March 2016

## Summary and reflection

### To be completed by the candidate

This page records your summary, reflection and evaluation when you have completed your project product and given your presentation.

Some questions you may wish to answer in this section include, what have I learned from completing this project? What new knowledge or expertise have I enjoyed or found valuable? What are the strengths and weaknesses of my project (including planning and organisation)? What skills have I improved? What changes would I make if I undertook such work again? What advice would I give to others undertaking such a project?

From my project I have found how we might potentially determine whether a computer with artificial intelligence is actually intelligent, and which types of computers may be able to achieve this. One of the most famous tests in the field of artificial intelligence is the Turing Test, and if a computer can display human-like behaviours in the test then some argue it could be called intelligent. However, other arguments such as the Chinese Room and Blockhead arguments show we must also look at the processes behind the behaviour in determining intelligence. This rules out a majority of simple processing computers such as desktop computers but a more promising type of computer is called the neural network. The neural network is based on the human brain and is a type of computer that is able to learn from its experiences to improve. The conclusion of my project is that a computer with intelligent behaviours and processes could be considered intelligent, such as a neural network.

When I started my project I knew quite a bit about artificial intelligence, but taking part in this project has taught me so much more about it and the future of the field. I found it very exciting to learn new things about artificial intelligence, and after spending six months on this project I still enjoy it!

One of the most valuable skills I have learnt from this project was being able to organise my time and all of the tasks that I need to do. When I started the project I wasn't as structured with the way I would research different things or complete different tasks, but as the project went on I got better at this skill. I now actually apply this to my other subjects, especially to my computing coursework where I have lots of small tasks to do to finish the whole coursework.

Another interesting skill I learnt from completing this project was how to structure a research project, as well as how to do the actual research. I have never completed a research project or report of this size before so it was a new experience but I think it will be very useful for when I go to university next year as I will have to do a lot more independent research and possibly large projects like this.

The thing I found the hardest about the project was writing a long report. All of the subjects I do are mathematical or logic based subjects, none of them are essay subjects so I am not used to writing a lot. The 5,000 words I wrote for this project is more than anything I have ever wrote before so at first it looked really hard however because I broke down the project into smaller tasks it was a lot easier than I thought. If I did it again, writing the long report would still possibly be the hardest thing however I would be more confident about it and it would be easier.

If someone told me they were planning on doing the extended project I would have two main pieces of advice for them. The first would be to have a good working title near the start so that they know exactly what to start researching, and it makes it easier to plan how the whole essay will go (even though this will change as more research is done). The second would be to make sure the plan they make has lots of breaks in it. I couldn't do this project every day for 4-6 months partly because I have other things to do but partly because if I did it every day I would lose motivation. I also found I would go over the time limits I set, or I'd want to research something else, and my whole plan would be ruined. Therefore I think having breaks in the plan helps a lot to catch up on other tasks, or to just take a break from the project.