### Criterion B: Introduction (Objectives 1 and 5)

"When I started looking at journal articles and web-based resources I found that a lot of work had been done on related issues. This helped me to see that my research was part of a bigger picture." (Samiko)

This criterion assesses the extent to which the introduction makes clear how the research question relates to existing knowledge on the topic and explains how the topic chosen is significant and worthy of investigation.

<table>
<thead>
<tr>
<th>Achievement Level</th>
<th>Descriptor</th>
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</thead>
<tbody>
<tr>
<td>0</td>
<td>Little or no attempt is made to set the research question into context. There is little or no attempt to explain the significance of the topic.</td>
</tr>
<tr>
<td>1</td>
<td>Some attempt is made to set the research question into context. There is some attempt to explain the significance of the topic and why it is worthy of investigation.</td>
</tr>
<tr>
<td>2</td>
<td>The context of the research question is clearly demonstrated. The introduction clearly explains the significance of the topic and why it is worthy of investigation.</td>
</tr>
</tbody>
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### This extract is taken from an essay that achieved 0/2 for criterion B.

**Psychology:** Stress is a very important asset of the Biological Perspective, while Memory is the part of the Cognitive Perspective.

Stress is a very important asset of the Biological Perspective, while Memory is the part of the Cognitive Perspective. Both of these perspectives are really important branches in the field of Psychology because it deals with the influence that how stress affects memory. Biological perspective deals with memory processing and behaviour and Cognitive perspective deals with internal mental processes which can consist of problem solving and memory.

The definition of stress can be defined according to three categories which is stress as a stimulus, stress as a response and stress as interaction between the organism and the environment. Stress can be caused by an event or an experience which a person cannot control and it goes over his or her capacity to control it. Stress is what happens to a person. It does not happen within a person. An engineering model shows how stress comes into action. An individual becomes stressed when he sees the environment as stressful situation.

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### This extract is taken from an essay that achieved 0/2 for criterion B.

**English B:** How does advertising in UK women's magazines construct and manipulate images of women by using visual and verbal means?

For my investigation, I have limited the source to four magazines and advertisements. Two do not employ the image of a female, whereas the other two do, but not obviously glamorous, which means that they are not manipulating the female as perceptibly. Establishing what advertisement is and how it works with the typical accustions of stereotyping a woman, followed by understanding the role of gender and complexity of understanding advertisements, leading into a compare and contrast analysis of my extracted advertisements.

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The research question needs to be mentioned in the introduction and outline what is being investigated and why the subject under investigation is significant.
English A1: The loss of innocence and morality in The Book Thief by Markus Zusak and To Kill a Mockingbird by Harper Lee.

Innocence encompasses a great deal of definitions, of which the most pertinent to this essay are the freedom from moral or legal wrong, naivety, and the lack of knowledge or understanding. The loss of innocence is not necessarily self-induced; more frequently this loss can be the developmental transition from ignorance to knowledge. The form of the degrading of innocence within To Kill a Mockingbird and The Book Thief can be explained though the genre of bildungsroman, a type of novel that explores the psychological transformation of a young protagonist, frequently tied to harsh social conflicts.

The student has not quite focused her ideas in this introduction and has fallen back on plot summary and/or description. The research question needs to be "tied out" and emphasized. The idea of a "loss of morality" in particular has not been adequately explored.

This paper will talk about Cantor’s Continuum Hypothesis, explaining how it is possible for some infinities to be larger than others as well as discuss the importance it has in modern day mathematics and show what developments have been made to the hypothesis since the time of Georg Cantor.

How is it possible for some infinities to be larger than others? The concept that there can be something that is larger than a never-ending set seems impossible and for a long time it was a topic that even the greatest mathematicians dare not fathom.


This was an enterprising choice of topic with the comparison between the two protagonists (Liesel and Scout) appearing to be both promising and original, and the link between the two works through the genre of bildungsroman deftly made.

More detail is needed at this stage about the aspects hinted here.

This sentence starts to gain your attention by suggesting that something that seems impossible actually is possible, giving a reason why the topic is worthy of investigation.
Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D. melanogaster and further, to what extent do different concentrations affect behavior.

Nicotiana or 'Solanaceae Nicotiana' is from the family of plants called Solanaceae, which is the nightshade family. The nightshade family includes amongst its members, Angel's Trumpet, Henbane and Belladonna, which are known to be some of the most toxic plants in the world as they are toxic because of the Alkaloids present inside them. Alkaloids are Nitrogen based compounds that are produced by many different plants, fungi and bacteria, they are often toxic to other organisms, they include the opium drugs and caffeine, two very strong neurotoxins\(^7\), their effects upon humans can range from mildly painful to fatal. Nicotiana itself is the plant from which we derive tobacco, and it contains Nicotine which itself is a very well known toxin in its own right. My research showed that Nicotina, a powerful neurotoxin, has a very harmful effect upon small insects such as aphids\(^8\) and has also been used for plant defence in the past.\(^7\)

On the contrary Marigold, or 'Calendula officinalis', is part of the Asteraceae plant family, has no real relatives that have toxins in them apart from the genera, Tanacetum, Chrysanthemum and Pulicaria. Marigold is known primarily for its medicinal properties such as antioxidant against bee and wasp stings, but it does have a pungent scent which has been known to ward off some chewing insects such as Tomato Hookworm and Asparagus Beetles\(^4\), and has been used for a very long time by gardeners to keep their vegetables clear of pests.

1. Introduction to the physics of the swing.

1.1 Purpose of investigation

Riders of playground swings, skateboarders and bikers riding a half-pipe utilize a principle most of us discovered in early childhood, usually referred to as "pumping". Via carefully timed, systematic motion of the rider, kinetic and potential energy can be added to the system in each swing to gradually increase the amplitude of the swing or maintain it constant, overcoming air resistance other energy losses. Despite a seemingly trivial principle, the actual movement of the rider and the underlying theory of how the swing keeps going are relatively complex.

The purpose of the investigation (...) ultimately prove that the energy gained by parametric modulation equals energy loss due to friction and air resistance during the swing motion with constant amplitude. Results can be used to help define the parameters of systems based on similar principles as the swing, e.g. the optimal dimensions of a skateboard half-pipe or a "pump-track" for mountain bikers, and numerous other "more serious" applications ...

1.2 Survey of theoretical and experimental work done ...

**BE PREPARED**

- Show how your research question relates to other similar research.
- Explain how finding an answer to your research question could help clarify some issues.
- Explain how the answer to your research question could be important.
Criterion C: Investigation (Objectives 1 and 3)

"I spent a lot of time looking for useful resources. Many of the articles I read were not relevant but then I found this really good one and I was able to bring the bibliography to back down more." (Ian)

This criterion assesses the extent to which the investigation is planned and an appropriate range of sources has been consulted, or data has been gathered, that is relevant to the research question. Where the research question does not lend itself to a systematic investigation in the subject in which the essay is registered, the maximum level that can be awarded for this criterion is 2.

<table>
<thead>
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</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>There is little or no evidence that sources have been consulted or data gathered, and little or no evidence of planning in the investigation.</td>
</tr>
<tr>
<td>1</td>
<td>A range of inappropriate sources has been consulted, or inappropriate data has been gathered, and there is little evidence that the investigation has been planned.</td>
</tr>
<tr>
<td>2</td>
<td>A limited range of appropriate sources has been consulted, or data has been gathered, and some relevant material has been selected. There is evidence of some planning in the investigation.</td>
</tr>
<tr>
<td>3</td>
<td>A sufficient range of appropriate sources has been consulted, or data has been gathered, and relevant material has been selected. The investigation has been satisfactorily planned.</td>
</tr>
<tr>
<td>4</td>
<td>An imaginative range of appropriate sources has been consulted, or data has been gathered, and relevant material has been carefully selected. The investigation has been well planned.</td>
</tr>
</tbody>
</table>

How can I be sure that my research is sufficient?

Make sure you access different types of resources and that you write about the strategies you used to find useful data or information.

The approach to this criterion can vary considerably from one subject to another so it is important to consult the relevant subject guidelines in order to make sure you are on track. The title of this criterion makes it clear that the work for an extended essay is an "investigation" (presenting and analysing information, evidence and data in an attempt to answer the research question) and not a "report" (a summary of facts and information about the topic).

In assessing this criterion the examiners make a judgment about the thoroughness of your research. This could include looking at the bibliography to assess whether you have accessed a wide enough range of sources (books, journal articles, reports, web pages, and so on) and whether the selection you have made appears to have been done "carefully" (in other words that you have selected resources based on their relevance and reliability). The bibliography itself provides only part of the evidence for this. Try to avoid the temptation to make a very long bibliography which includes sources you do not make use of in the text in an effort to impress as examiners will check to see whether the in-text references match with the bibliography. In addition, you need to devote some text to writing about the process you went through to obtain and select sources of information and data. You may also need to devote some text to writing about how you decided on the relevance or reliability of the sources you have used. It is recommended to be cautious and critical when using internet-based material. By doing this you are also providing evidence of the "planning" that went into the investigation, the other aspect of this criterion.

This extract is taken from an essay that achieved 0/4 for criterion C.

Physics: How do mechanical vibrations affect the manufacturing industry?

Reciprocating machines equipped with pistons for example will cause vibrations due to the nature of the movement in the machine itself. … Rotating machine parts such as the propeller of a fan can create vibrations if the weight of mass of the propeller blades are not exactly equal. … Such vibrations are caused by a low fabrication quality of the propeller.

As we have explained, mechanical systems will always generate more or less vibrations caused by their design, their technical quality, their state or condition at the moment.

Bench marks in the manufacturing industry have shown that companies that measure vibration on more than 90% of their equipment are able to execute more than 80% of their maintenance work proactively …

Economics: How does the P.E.D. vary between Bosnia and Tanzania?

Data on prices were gathered, but these were not relevant to the actual question. There was no table of contents, which is usually used to show that the essay has been laid out in a planned fashion. There is little indication of a formal methodology. A formal methodology does not have to be explicitly stated, but may be useful to show the planning steps.

BIBLIOGRAPHY:

In order to obtain various figures for the exchange rates in the countries at the specific times, I had required assistance from the specified website:

http://www.greenwichmeanetime.com/

The bibliography contains only one source, and this was not relevant to the research question. Some economics information has been used, perhaps from class notes, but there is no economics book or other evidence of economics research in the bibliography. Thus, there is little evidence that you have been consulted.
This extract is taken from an essay that achieved 2/4 for criterion C.

English A1: To what extent was Charlotte Bronte successful in portraying a "plain and small," conventionally unattractive heroine in Jane Eyre?

Bronte does not only fail between Rochester's treatment of both women and between the obvious differences in their looks to portray Jane's unattractiveness, however, she also fails between both women's decisions, to portray the true heroine. During Rochester's 'guests' stay at Thornfield, Blanche treats Rochester with the utmost respect and complementation, as she believes he is a very wealthy man, who will make a suitable husband; as "Mr Rochester led in Miss Ingram, she was complementing him on his acting."[18] Blanche Ingram's agreement to marry Rochester because of his wealth is in conformity with Victorian convention, as was the norm for fair women, like Blanche, to marry wealthy and well-established men, like Rochester. Even Jane, who is deeply in love with Mr Rochester, can understand the idea of their marriage; she "had thought him a man unlikely to be influenced by motives so commonplace in his choice of wife; but the longer [she] considered the position, education, etc., of the parties the less [she] felt justified in judging and blaming either him or Miss Ingram for acting in conformity to ideas and principles instilled into them, doubtless, from their childhood."[17] Later however, when Mr Rochester "caused a rumor to reach [Blanche] that [his] fortune was not a third of what was supposed...the result...was coldness both from [Blanche] and her mother;"[19] Blanche's refusal to marry Rochester when she finds out that he is not as wealthy as she has thought is in conformity with convention, however, her act is very un-heroine like. On the other hand, Jane refuses to marry Mr. Rochester when he first proposes, asserting that she has "an independent will,"[20] however she later agrees to his proposal. [...] He tells her that "as she is rich, [she], no doubt, [has] friends who will look after [her], and not suffer [her] to devote [herself] to a blind lamenter like [him];"[21] defying all convention. Jane answers that she is now "independent...as well as rich." Jane is now her "own mistress,"[22] and will "certainly-unless he objects,"[23] stay with him. Bronte's foil of Blanche's beauty and Jane's unattractiveness, Blanche's societal manners and Jane's bluntness, serves to portray that, ultimately, the heroine, Jane, is made, not through her beauty or lassiness, but through her heroic decisions, depicting Bronte's defiance of Victorian convention of the "beautiful heroine," which "unlike her sisters, Charlotte rejected."[24]
**This extract is taken from an essay that achieved 4/4 for criterion C.**

**Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D.melanogaster and further, to what extent do different concentrations affect behavior?**

I took a number of the plants that I was going to use and prepared to cut the leaves and stems up. Immediately I saw a problem with the experiment I saw that although I had two Nicotiana plants and two Marigold plants, the difference in size was such that when I had cut up the stems and leaves of the two Marigold plants, it weighed the same as half of just one of the Nicotiana plants, therefore I realised that for the real experiment I would have to use a lot more Marigold plants than Nicotiana ones.

When I was doing my preliminary experiment I found that I couldn’t just put cotton wool balls in each area as there were liable to be moved. So I decided that I would cut apples into halves, de-core them and place the soaked cotton wool ball in the hole. This seemed to work and I prepared four soaked cotton wool balls, two in the Nicotiana Extract and two in the Marigold extract. Each ball was placed within a half apple in a quarter area of the fish tank, and I added a hundred fruit flies in the tank, covered it and left the fruit flies to settle.

I had planned that each experiment would last over two hours, and in the two days available for all the experiments I could only achieve 8 maximum on nine experiments. Allowing for two repeats of each experiment round that I could only use three setups. I wanted to take measurements on as many different concentrations of each of the plant extracts as possible, so the following three experimental setups were devised:

1. A clear, well-delineated table of contents shows planning and an appropriate bibliographic list as a preliminary indication of the range and appropriateness of the sources used in the essay. Both sections are often good early indicators of the quality of the investigation.

2. There is good evidence that a suitable range of published resources has been used throughout the essay, some of these are more "academic" (eg. botany.hawaii.edu) than others (eg. weekendgardener.net). However, this part of the work could be enhanced by including reference to some journal articles or other printed sources.

3. For a practical investigation this criterion can be judged against the quality and extent of the data collected through experimentation. In this section it is possible to see how the data collection was carefully planned and how the extent of the data collection was adjusted so that it was manageable within the time available. Note: this is not the only evidence for the range of data collected but the plans outlined here are reflected in the rest of the essay.

**Visual arts: How is the changing social, cultural and economic function of the river Thames from the 18th century to the present day reflected in its representation in painting?**

**Illustration 4. Rain, Steam and Speed – The Great Western Railway, JMW Turner, before 1844, The National Gallery**

One of Turner’s paintings, *Rain, Steam and Speed – The Great Western Railway* (Illustration 4), illustrates the immense changes London underwent in the 19th Century due to the Industrial Revolution, the first pace of the scene shows the energy of this growing society, with the Thames underneath the great London bridges and new train system. The features of the painting "bespeak a society that is diving before the impact of the scientific revolution." Art historians have drawn an interesting connection within the painting as it deals with two very different motifs, the etherial/fluid idea of the water and sky and harsh, dynamic energy of the train being thrust forward into the future which ties together some of the multiple functions of the river as an industrial centre point for England and a river to roam on.

22 Hayes Tucker, 226

**BE PREPARED**

- Use a range of sources (books, journal articles, web-based resources, etc).
- Explain how resources are selected.
- Enough data or information should be gathered to answer the research question.
6. How good is my essay?

This extract is taken from an essay that achieved 1/4 for criterion D.

**Visual arts: Is fashion design a form of visual arts? How has the influence of fine art paintings helped make the fashion world more accessible and the visual arts world easier to understand?**

**Distinction between art and craft in fashion wear and design.**

In all areas of art there is a question of what is art and what is craft. As was mentioned, this is re-current issue that originates from the 19th century. In the past one of the biggest problems was whether or not fashion could be included in the arts, despite the fact that so many artists wanted to create dresses or items of clothing and did so frequently. When one reads the manifesto proposed by Henry Van de Velde in the beginning of the 20th century and how he viewed the changes in fashion to be radical and revolutionary, one understands that we are fortunate to be living at a time, when these distinctions have finally subsided. In the 1990 he presented this big fashion exhibition with clothes designed by artists and designers and where he proposed that personality and individuality is important. He felt that at the time fashion was functional and conformed to certain business rules and merchants. Through this exhibition he wanted artists to work in collaboration with the designers and re-create clothes that were functional and not just ornamental.

A discussion of precise and meaningful investigation, rather than description, with clear, specific examples and supporting literature, would have made this topic far more effective. Reference to specific exhibitions, artists, art movements and the use of art terminology would have raised this mark.

Demonstrate your thoughts and findings from your investigation and research. Think, "how is your topic related to your chosen subject?"

12 Against Fashion, Clothing as Art 1850-1930, Radu Stern, MIT Press, London
Psychology: How attachment shaped future relationships, builds up from Bowlby’s Inner Working Models theory.

The inner working model also contributes to the child’s view of them self. Children with a history of a secure attachment relationship with their caregiver, also tend to develop a positive sense of them self. In contrast, a child from an insecure attachment relationship, tend to have a less positive image of them self and have a more difficult time maintaining their self-esteem. After the child’s third year of age, the child’s inner working model is fully stabilised and the child applies it to new relationship, at this age, perhaps pre-school. At this stage a child with a background of a securely attached relationship will expect the new adults to show interest, support and responsiveness. A child with a background of insecure attached relationship will show mistrust towards the intentions of the new adults and their emotional responsiveness.

There is mostly description of theory and not many references to the academic literature. An improvement would be a correct reference to the theory and a more in-depth understanding of the theory and its importance.

Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D.melanogaster and further, to what extent do different concentrations affect behavior.

The reason why I think that the effect on the D.melanogaster will increase as the concentration increases is due to the principles of Collision Theory. In this theory, the plants will apply in Biology. In Chemistry Collision Theory states that as you increase the number of particles that can react the chances of them hitting each other and reacting is increased and therefore the rate of the reaction increases. In this experiment, we don’t have two different sets of particles hitting each other. Instead we have two things acting as particles, the D.melanogaster and the particles of plant extract given off in a vapour, therefore as the concentration increases, hopefully more D.melanogaster will hit the particles of plant extract, and therefore they should be repelled more.

Therefore if we take the principles of collision theory to apply to this experiment we can predict that as the concentration, the number of molecules that are in the plant extract, increases the greater the repelling effect it would have upon the D.melanogaster.

History: Why Kazakhstan was annexed to part of Russia in the 18th–19th centuries.

Despite the presence of huge territories, Kazakhstan was not the uniform state. China, Khiva and Kokand tried to use difficult internal and external position of Kazakhstan in their own interests. In order to understand why Kazakh people wanted to become Russian’s voluntary subjects, it is necessary to consider external political and internal problems that Kazakhstan faced that time. [...] Unfortunately, with the weakening and then with full disappearance of Dzungaria in 1757–58, the external and internal political position of Kazakhstan did not improve. On the contrary, it became more aggravated. In 19th century the central Asian khanates became stronger, and as a result, their policy got more aggressive direction. Besides, the threat from China still remained. In 18-19th centuries there were military and political union between feudal Kazakhs and central Asian governors, which were confined for their own interests.
### Mathematics: What is the role of prime numbers and factorization in RSA encryption?

The process of encryption is typically described in terms of three people; Alice (the receiver), Bob (the sender), and Eve (the attacker).

There are several variables that are used throughout the encryption and/or the decryption process. This chart (provided later) will clarify who can know the variables. If only Alice knows the variable, then that variable is secret and not to be shared with the public. If only Bob knows a variable “...”

Although RSA encryption is one of the strongest forms of public key cryptography, it relies on the assumption that computers do not have the processing power to factor the product of two very large prime numbers into those two original large prime numbers. That assumption may not last awhile as computer scientists are trying to construct a quantum computer that could efficiently factor the product of two very large primes.

### Economics: What is the Price Elasticity of Demand for various hardware goods in Arusha, Tanzania, and what determines this value?

Mahuti are the metal roofing sheets, which I expected would have an inelastic PED. My reasons for my prediction were that the good is very cheap as a bundle of 16 sheets (each $3/$16 = $1.87) are sold for $25.00. Thats, thus a small proportion of one’s income is spent on it. Its also fairly necessary for a good building, as it makes the roof more resistant. Its also very hard to substitute, as there are very few substitutes for metal roofing sheets generally, but its also very difficult to find metal roofing sheets in Arusha made by a company other than Kiboko, especially at a similar price. Another reason is that it has fairly few uses, as its only use of for roofing.

### BE PREPARED

- Make sure the information you have selected is specifically relevant to the research question.
- Show the reader that you have understood the main points by linking the information back to the research question.
- Where appropriate, explain the terms in your research question.
- Discuss related issues.
- Explain these issues using theories and knowledge from within the subject.

### Criterion E: Reasoned argument (Objectives 1 and 4)

“Making a strong argument is not easy as the ideas have to fit together in a convincing way. I have tried to do this by regularly referring back to the research question.” [Nick]

This criterion assesses the extent to which the essay uses the material collected to present ideas in a logical and coherent manner, and develops a reasoned argument in relation to the research question. Where the research question does not lend itself to a systematic investigation in the subject in which the essay is registered, the maximum level that can be awarded for this criterion is 2.

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</tr>
<tr>
<td>1</td>
<td>There is a limited or superficial attempt to present ideas in a logical and coherent manner, and to develop a reasoned argument in relation to the research question.</td>
</tr>
<tr>
<td>2</td>
<td>There is some attempt to present ideas in a logical and coherent manner, and to develop a reasoned argument in relation to the research question, but this is only partially successful.</td>
</tr>
</tbody>
</table>

3. Ideas are presented in a logical and coherent manner, and a reasoned argument is developed in relation to the research question, but with some weaknesses.

4. Ideas are presented clearly and in a logical and coherent manner. The essay succeeds in developing a reasoned and convincing argument in relation to the research question.

How can I make sure that the reader can recognize and follow my line of argument?

Don’t leave it up to the reader to see the connections. Point out explicitly how the evidence or information you are presenting relates to the research question.

This is crucial to the success of your essay. Remember your purpose is to convince the reader that the conclusions you draw regarding the research question are well founded and are supported by the evidence you have gathered and presented. So clearly, research question, data, evidence and/or information must be linked in a convincing way to the conclusions. You must do the “linking” and not simply leave it up to the reader to “see” the connections or relevance of what you have written. It is important to be explicit in your writing about why or how certain information is important or relevant and how it helps to address the research question. This is possibly the most difficult part of the writing process and is often the deciding factor in the overall success of the essay.
History: What was the influence of Ernesto Che Guevara on the Cuban revolutionary war 1956-1959?

He saw people as friends or enemies. That was why he became so dangerous in his thinking and behavior. In my opinion every day for Guevara was just another opportunity to kill others from the opposition to achieve his goal – winning the war and taking power. [...] We even call him the “Napoleon of that time”. Like the great French leader, he was able to look at war and revolution strategies and analyses them – looking at the weaknesses of the enemies of the revolution. He read books a lot. That gave him an extra advantage over his enemies.

This statement really needs to be supported, it is very important to avoid general statements like these unless they are supported.

When you make an assertion (judgment) ask yourself if you can support it.

Physics: How do the charged particles from the solar wind enter the Earth? Is there any correlation between the solar wind and the temperature of the Earth.

2.6 Global warming.

![Graph showing global temperatures](http://theblake.us/blog/post-pics/warming.jpg)

As we can see from the above graph that global warming is actually happening. There are certain factors, which contributes to global warming or rise in temperature of Earth for example: greenhouse gases, solar variations etc. I am just going to concentrate on one of the many Solar activities which is solar winds I explained before.

3. Discussion and investigation on Solar wind and Earth’s temperature correlation.

... The solar wind starts relatively well organized, and later diffuses. The temperature history starts disorganized and later coalesces... And it is obvious that the temperature is increasing. The long term, steady rise in both the Solar Wind Index and the Temperature anomaly suggest a correlation between the two traces.
**Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D. melanogaster and further, to what extent do different concentrations affect behavior.**

The *D. melanogaster* are affected by both of the plant extracts, they are quite clearly shown to be either repelled or attracted to the plant extracts. Having looked at all three of my tables and combining them, I believe that when the concentrations of the plant extracts are low, they attract the *D. melanogaster*, while at higher concentrations, they are repelled by the plant extracts.

I think that this pattern occurs for a number of different reasons; one of them is that in small doses, the Nicotiana is attractive to small insects such as *D. melanogaster*. I believe this because Nicotiana comes from the family *Solanaceae*. All of these plants contain the natural toxins Alkaloids, which is commonly found in such drugs as Opium. In small doses to the *D. melanogaster*, the Alkaloids in the Nicotiana could have a narcotic effect upon them making them more attractive to them. In higher concentrations however, I believe that the Alkaloids become too much of a good thing, and therefore the *D. melanogaster* are repelled by them.

**English A1: A Biblical Analysis of The Chronicles of Narnia.**

The most notable parallel between the Bible and The Chronicles of Narnia is that of the life, death and resurrection of Jesus Christ, or the life, death, and resurrection of the Lion Aslan. [...] 

Jesus suffered and died to save humanity, just as Aslan gave his life to save Edmund to expunge his sins in the *The Lion, the Witch and the Wardrobe*. This is very similar to Jesus’ death which expunged Adam and Eve’s sins in the Garden of Eden. When Jesus is laid to rest in a cave, he remains dead for three days, and then arises as the true son of God, ready to ascend into heaven. The morning after Aslan sacrifices himself on the Stone Table, Susan and Lucy go to him and unbind him. When they turn to leave, there is a large crack and the Stone Table breaks. Lucy and Susan find that Aslan is no longer there. He has come back to life for his great sacrifice to help Narnia. "She would have known that when a willing victim who had committed no treachery was killed in a traitor’s stead, the Table would crack and Death itself would start working backward."[1] Aslan and Jesus both gave their lives to help the people of their worlds for the greater good.

C.S. Lewis: *The Lion, the Witch and the Wardrobe* (pg 119)

**Economics: The proposal to introduce a Goods and Services Tax in Hong Kong was shelved in 2006 due to inappropriate economic conditions. These conditions have now alleviated. This begs the questions “Is now the time to introduce a Goods and Services Tax in Hong Kong?”**

Hong Kong is well-known for its predictable and competitive income and corporate tax system, attracting many overseas to invest in the city. However, many of the other countries are now lowering their profits tax, threatening the city with competition. This is shown in figure 5. If the city loses this advantage, its economic growth may slow.

Figure 5 – table comparing corporate tax rates between Hong Kong and other economies.
Table 1: Comparing corporate tax rates between Hong Kong and other economies

<table>
<thead>
<tr>
<th>Jurisdiction</th>
<th>2000 Company Profits Tax Rate</th>
<th>2005 Company Profits Tax Rate</th>
<th>Change in percentage points</th>
</tr>
</thead>
<tbody>
<tr>
<td>OECD</td>
<td>33.6%</td>
<td>29.8% (2004)</td>
<td>-3.8</td>
</tr>
<tr>
<td>European Union</td>
<td>About 33%</td>
<td>About 25%</td>
<td>About -10</td>
</tr>
<tr>
<td>South Korea*</td>
<td>30.8%</td>
<td>27.5%</td>
<td>-3.3</td>
</tr>
<tr>
<td>Austria</td>
<td>34%</td>
<td>25%</td>
<td>-9</td>
</tr>
<tr>
<td>Singapore*</td>
<td>26%</td>
<td>20%</td>
<td>-6</td>
</tr>
<tr>
<td>Iceland</td>
<td>30%</td>
<td>19%</td>
<td>-11</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>16%</td>
<td>17.5%</td>
<td>+1.5</td>
</tr>
<tr>
<td>Hungary</td>
<td>18%</td>
<td>16%</td>
<td>-2</td>
</tr>
<tr>
<td>Lithuania</td>
<td>24%</td>
<td>13%</td>
<td>-9</td>
</tr>
<tr>
<td>Ireland</td>
<td>28%</td>
<td>12.5%</td>
<td>-11.5</td>
</tr>
<tr>
<td>Macau*</td>
<td>15.75%</td>
<td>12%</td>
<td>-3.75</td>
</tr>
<tr>
<td>Cyprus</td>
<td>15%</td>
<td>10%</td>
<td>-5</td>
</tr>
</tbody>
</table>

* These jurisdictions also offer tax incentives or holidays that can reduce effective tax rate.

Source: Government inland revenue department

Whilst many other places are lowering taxes, with the notable decreases in tax rate by Ireland with 11.5%, Hong Kong has increased its tax rate by 1.5%. In order to complete successfully, Hong Kong would have to lower its profits tax, and without a broad tax base, it is not able to do so. Therefore, a GST is needed in the recent future to ensure Hong Kong's international competitiveness.

This extract is taken from an essay that achieved 4/4 for criterion E.

English B: How do the characters in the Neil Shute’s On the Beach and Cormac McCarthy’s The Road cope with their fate and the outlook on life and how is this mirrored in the narrative technique of these novels?

Although death is certain for the characters and mankind as a whole in On the Beach and thus there is no glimpse of hope or optimistic outlook on survival, life until that moment is quite pleasant for the characters because people are civilized and self-composed in a still mostly intact society. This matter-of-fact order is mirrored in the novel's straightforward style and language void of metaphors and double meanings. The harder living conditions in The Road where the lives of the characters are constantly challenged by starvation or murder, would suggest a hopeless and more pessimistic outlook on life than is actually portrayed in the novel. The grandiose language full of metaphors, the similes, and biblical references support and mirror the symbolic character of that novel.

BE PREPARED
- Regularly relate your argument back to the research question.
- Support your argument with evidence.
- Do not overstate your case: do not make claims that you cannot support.
- Ensure your case is as strong as you can make it based on the evidence.
- Ensure your conclusions are related to your research question.
Criterion F: Application of analytical and evaluative skills appropriate to the subject (Objective 7)

"When I started out I thought there would be some clear, obvious relationships. It seems though that this issue is more complex than I expected." (Ashanti)

<table>
<thead>
<tr>
<th>Achievement level</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>The essay shows no application of appropriate analytical and evaluative skills.</td>
</tr>
<tr>
<td>1</td>
<td>The essay shows little application of appropriate analytical and evaluative skills.</td>
</tr>
<tr>
<td>2</td>
<td>The essay shows some application of appropriate analytical and evaluative skills, which may be only partially effective.</td>
</tr>
<tr>
<td>3</td>
<td>The essay shows sound application of appropriate analytical and evaluative skills.</td>
</tr>
<tr>
<td>4</td>
<td>The essay shows effective and sophisticated application of appropriate analytical and evaluative skills.</td>
</tr>
</tbody>
</table>

The reader cannot be expected to find these for themselves; you need to point them out explicitly. After all, you want to demonstrate to the reader that you have reached a certain level of expertise in your topic and can confidently identify and point out the key relationships.

This criterion examines how successful you have been in finding and describing patterns, trends, and relationships in the information or data you have compiled. The thinking process and other more technical approaches (such as statistical analysis) need to be explained and possibly even justified (if there are a number of alternative approaches, for example). The approach you take to analysing the data should be acceptable within the discipline or subject area of your essay. In addition, a judgment is made here about how successful you have been in pointing out the strengths and weaknesses of your approach. So it is important to be critical of your own work and say which parts worked well and which parts needed more attention or a different approach.

---

**This extract is taken from an essay that achieved 0/4 for criterion F.**

**Mathematics: How is it possible for some infinities to be larger than others?**

- Cantor realized that the first two levels of infinity, aleph and aleph, didn’t cover all of the real numbers. Levels of infinity grow one after another. The generalized Continuum Hypothesis states that there are an unlimited amount of levels of infinity.
- 46 McGough, P43 1/1
- 47 McGough, P43 1/1

---

**This extract is taken from an essay that achieved 0/4 for criterion F.**

**English A1: How do strong female roles in Pride and Prejudice and Hedda Gabler affect society’s view on women during the 19th century?**

- The discussion is very general. Points are not substantiated by close reference to incidents or characters in the text, or by quotation from either primary or secondary sources.
- Hedda is not like Elizabeth in the fact that Elizabeth is what the public expects a woman to be like. Hedda lives life as she pleases and as many did not appreciate. Hedda lives life as she pleases and as many did not appreciate. Hedda has a mind of her that shows the public that women too can process in society like men contradicting the views that people at the time have. Unlike Hedda, Elizabeth, in Pride and Prejudice, is praised for Austen’s portrayal of the domestic life that was to be followed during the century. Women are seen as housewives, must remain home and tend to their husband and follow what is said and not question what is told to them, but Hedda gives the public a different opinion on women. Hedda lives by her own rules and makes her own definition as to how a woman reacts to opposing what society expects, and thus makes her a monster in the public’s eyes ("Hedda Gabler!).
- 46 McGough, P43 1/1
- 47 McGough, P43 1/1

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- 46 McGough, P43 1/1
- 47 McGough, P43 1/1
**Artistic Splendour of Geological Formations**

Santorini is also known as Strongilí. This is in Greek means round. An enormous volcanic eruption took place in the island in 1500 BC, creating waves that reached other islands as far as 70 miles away. This event destroyed the Minoan civilization in Crete. It is possible that this was one of the most gigantic volcanic explosions on earth that have ever taken place. Today, its shape looks like a "crescent surrounding the caldera" which is a "cavity left by the collapse of a volcanic cone." The word caldera derives from the Latin word caldarium which means "cauldron (hot bath). Walking there is an incredible experience; it is like being inside a vast piece of sculpture. The black soil, the characteristic smell from the volcano, all elements consist a scenery which seems almost metaphysical. Due to the explosion, the centre of the island sunk, destroying numerous settlements of the island. Santorini in the form that is today is what has remained after the enormous erosion of the island's volcano. However, many centuries ago, another explosion had taken place where the caldera was first formed. The caldera, as shown in image 3, is highly respected among the Santorinians who live with the knowledge that the sleeping volcano might at any time wake up. This fact adds to the overall uniqueness of the natural environment of Santorini as well as to the Santorinian idiosyncrasy of the local inhabitants, the majority of which are passionate about their island even though they live their lives knowing that all might suddenly end. "Santorini's architecture is defined from the islands' topography, earthquakes and the social reality which is tied to the peculiar environment and unusual geology." "Santorini's caldera is actually one of the most important geological configurations on planet earth." The Santorini villages are built on the caldera's rim, a fact which in a way symbolically depicts the centrality of the caldera. The peculiarities of the geology of the island is directly connected to the aesthetics developed there and specifically how these manifested in the unique vernacular architecture. Steep cliffs rise from the sea and these are of incredible beauty. The colours of these rocks are breathtaking as shown in the images 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 and 14; an endless array of grey, black, brown, cream, white and even rare shades of pink. Such spectacular beauty of the environment naturally affected and shaped the aesthetics of the local people who poured all this into everything they built and which brought magnificent results.

---

**Psychology: Is Sleep Important for Memory?**

There has been a look into the effects of sleep deprivation in both animals and humans. Like humans, for animals long-term sleep deprivation is not good for health, as it can cause impairment of keeping a correct body temperature, metabolic dysfunction and eventually death. An example of this was done by Rechtschaffen et al. (1989a, b) where deprived rats were selected for either REM or both REM and NREM sleep. After a week of deprivation, the rats showed progressive weight loss, even if they'd been eating well. This continued for two weeks, and after four weeks the rats had died. During this time, the rats' body weight decreased, while the food consumption soared and their body temperature became progressively unstable. This indicates that sleep deprivation can be deadly. The experiment was made with rats and there are ethical issues involved.

Research with animals can perhaps not always be generalised to humans. In the case of humans, studies have been failing to show any changes in heart and breathing rates, blood pressure, skin conduction, body temperature, EMG or EEG, even when deprivation continues for up to 200 hours. (Webb & Bonnet, 1979, in Gross 2001) conducted an experiment where they limited their participants to two hours of sleep on particular night; results showed that the suffered no ill effects that following day, but that they next night they felt asleep more quickly and slept longer than usual. From this they concluded that longer periods of sleep deprivation may result in some unpleasant psychological effects, but people are remarkably able to do without sleep.
This extract is taken from an essay that achieved 3/4 for criterion F.

This extract is taken from an essay that achieved 3/4 for criterion F.

History: The role of Tula and its defenders in the outcome of the Great Patriotic War and the Second World War.

It is also important to notice that both of these books have similar disadvantages. Both of them are likely to be biased as they are written by two generals of the opposing sides. E.g. Boldin is not ashamed of quoting expressions of people around him, offensive towards fascists (e.g. Moscow’s “bastards”). While Guderian throughout all of his book is trying to create a positive picture of Nazis’ armed forces. It is known for sure that Guderian’s memoirs were censored when they were published in 1954 (e.g. his description of the conference between Molotov and Hitler was cut out). Besides that as Guderian wrote himself a lot of fascists’ archives were destroyed. This makes us think that some information might be missing even from his memoirs.

During that period Tula was used as the base of those pilots who represented the “France combatante” – the pilots of the air fighter regiment called “Normandie” (later – “Normandie-Nieman”) which was sent to the city for “winter accommodation”26 and was “temporary included in the fighter aviation of air defense that was covering Moscow”27. Although there were no flights except for those training flights that were possible in January we can still say that the fact that the pilots were sent to Tula played some role in their future victories over the fascists because Tula was the city where the regiment was reinforced by some more French pilots and new soviet aircrafts and there was a possibility that Tula could become the place where a new division of the French pilots could be formed instead of the regiment. However, this did not happen.

Typical data analysis for a biological investigation includes some kind of statistical analysis. Here the statistical test used is summarised and the conclusion that the correlation is significant is correctly made. This set of results shows a significant negative correlation, as the concentration increases.

The graph shows to me that the effects of Marigold and Nicotiana seem to be very similar; they both have the same pattern. However I would say that they are different in the fact that the Nicotiana results have a much steeper line of best fit than the Marigold.

Spearman Rank Correlation Coefficient (p) = 0.111

Critical Value of p = 0.714

This set of results shows a significant negative correlation, as the concentration increases.

Ensure any terms used are sufficiently defined and where necessary have supporting detail.

6. How good is my essay?

BE PREPARED

- Write about the patterns, trends and relationships you have found.
- Explain and justify the approach you use.
- Critically evaluate your work.
Criterion 6: Use of language appropriate to the subject (Objective 6)

"When I was reading some of the background material I found I had to look up the meaning of lots of terms. I have tried to explain these in my own words in the essay." (Niall)

Achievement level | Descriptor
--- | ---
0 | The language used is inaccurate and unclear. There is no effective use of terminology appropriate to the subject.
1 | The language used sometimes communicates clearly but does not do so consistently. The use of terminology appropriate to the subject is only partly accurate.
2 | The language used for the most part communicates clearly. The use of terminology appropriate to the subject is usually accurate.
3 | The language used communicates clearly. The use of terminology appropriate to the subject is accurate, although there may be occasional lapses.
4 | The language used communicates clearly and precisely. Terminology appropriate to the subject is used accurately, with skill and understanding.

Communicating clearly and precisely is not as easy as it sounds, and is a key skill when you are attempting to produce a coherent and intelligible piece of writing in any discipline. There are in fact two aspects to this criterion: the use of clear and precise language on the one hand and the use of terminology appropriate to the topic on the other. Try to adopt and sustain a clear and precise style throughout the essay. While there is no general requirement to write in the passive voice, this may be preferred in certain subjects. Where this is not required, writing in the first person singular, active voice, may be clearer and may in fact be easier to sustain (especially for non-native speakers of the target language).

To help with this area of your essay you need to show an understanding of fluency with the main technical terms associated with your topic. This means being able to define and accurately use not only the key terms in the research question but also many if not most of the associated terms. It also means showing that you have a command of the terminology appropriate to your topic and that you can use this in context.

It is helpful to be conscious of the level of sophistication of the language that you are using and to try to maintain this at a consistent level. Avoid sudden changes in style; for example jumping between active and passive voice or varying between first person singular and first person plural ("I and we"). Problems can also arise if your investigation uses a very technical research approach or experimental protocol. In these cases it is important to make sure that you explain the technical language and that you are able to sustain the technical style in a convincing way.

---

6. How good is my essay?

This extract is taken from an essay that achieved 1/4 for criterion 6.

History: Why was Hannibal initially successful but ultimately defeated?

The language used here is not very precise and it is not always easy to follow the argument.

There are sweeping generalizations here, for example: "absolutely huge army" and "nearly never-ending man supply"; the student could have been precise about how many soldiers Hannibal had at his disposal and stated why there was a seemingly endless supply of men. Also, "completely smashed" is rather colloquial, instead "heavily defeated" could have been used.

Some better word choices would help to express your points clearly.

This extract is taken from an essay that achieved 1/4 for criterion 6.

Visual arts: Gustav Klimt – the use of figure, pattern ornamentation, and the portrayal of the natural world to reveal his intended theme of the female nude.

Gustav’s use of decoration is a major part of his paintings. All of this talent is derived from his father’s passion for jewelry and decoration and his early training in the School of Applied Arts in Vienna. Klimt once said, “No area of human life is so insignificant or trivial that it cannot offer scope for artistic endeavor.” By this he has learned to envision all of reality as an artistic experimentation. Not only did this allow him to explore the different usages of decoration, but it allowed his work to stand out amongst other artists. Klimt inserted naturalist details into a world of pure abstraction and tackled his paintings by filling the canvas with splashes of bright colour and geometrical shapes and patterns.


Physics: Investigation of the Foucault's pendulum and its characteristics at different locations on the planet Earth.

- To measure the change of direction of the Foucault's pendulum in one sidereal day (which is...).
- To attempt to create a general formula, with the change in direction per sidereal day as a function to the latitude.

The Foucault's pendulum is a device which can be used to prove the rotation of Earth...

Above is a top down view... the center bold line is the path of the oscillation...

The two arrows are the directions of rotation.

The data shown above is not 100 percent accurate, because it fails to take into account... the observer (camera) must be normal to the measurement.

The x intercept should be zero but it is impossible to have the latitude as zero since there is no value for the log(0) ...
The change (…) increased very quickly at first (…), but slowly down as the latitude increased some more.

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Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D.melanogaster and further, to what extent do different concentrations affect behavior.

There are some unexplained terms in the first paragraph of this section and these are also not explained anywhere else in the essay. There is also some weak, colloquial language here. This pungent aroma becomes too much for D. melanogaster to handle, which detracts from the quality of the essay.

For Marigold a similar thing occurs, but there are no Alkaloids present inside the plant, therefore I know that the Marigold extract gives off a pungent scent which in small doses is attractive to the D.melanogaster, however in too high a concentration, this pungent aroma becomes too much for the D.melanogaster to handle.

The statistical data indicates that an increase in concentration led to an increased effect on the behaviour of D.melanogaster. When I was doing my Spearman's rank correlation for my Nicotiana average extracts, I found that there was a significant negative correlation of -1.11. This means that there is a pronounced downward slope in the number of D.melanogaster in each area, as the concentration of the Nicotiana extract increased.

I cannot say the exact same things for the Marigold extract, although I also received a negative correlation it was not significant, this means that I cannot be as certain that as the concentration of Marigold increases, the more that the D.melanogaster are affected. I have found many errors within my experiment, and therefore the fact that there was a negative correlation, may only be a fluke.

---

English B: How does Hanif Kureishi explore the effects of conflict in cultural identity through the experience of the main characters Shahid (“The Black Album”) and Karim (“The Buddha of Suburbia”)?

The use of “foreshadow” in the second sentence rather than the literary term “foreshadow”, limits the award of marks in this case.

Indeed, this quote almost acts as a forecast for all the emotional, physical, and mental distortions to come for Shahid who (even Zulma, Chilli’s wife knows, is “easily influenced”, p 85). As in the Buddha of Suburbia (and the case for Karim), London offers a series of adventures and life-changing experiences for Shahid. In the beginning of the novel, Shahid seems to be a victim to all the parties around him. Raiz and his followers seem to try to manipulate him, by (for example) Chad (most plausibly), stealing Raiz’s clothes...
This extract is taken from an essay that achieved 3/4 for criterion 6.

**Economics: To what extent has the HK dollar’s peg with the US dollar influenced the average price of properties in mid-levels, Hong Kong?**

Relatively small price increase from P1 to P2 shown by figure 4 doesn’t seem to fit the actual 16.2% increase and the chart above showing the price index reaching a new peak. One thing I have not yet taken into account yet is supply\(^1\). Price elasticity of supply\(^1\) depends on how much costs rise as output increases and the time period. Locating on the mountainside, Mid-Level has little space for development. It is impossible to increase flat land in the area and develop a property in the short run, but it will also cost a lot of capital and labour to do so in the long run. For this reason only 1 out of 42 development projects is taking place in the Mid-Level despite 16.2% price increase. Hence, the supply of luxury properties in Mid-Level can be considered ‘price inelastic’. Price inelastic supply curve is drawn steeper than normal supply curves. The effect is shown below.

![Supply Diagram](image)

<table>
<thead>
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<th>Price</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1</td>
<td>S1</td>
</tr>
<tr>
<td>P2</td>
<td>D1</td>
</tr>
<tr>
<td>D2</td>
<td>P1</td>
</tr>
</tbody>
</table>

Ensure any terminology is confidently used and is appropriate to the subject whilst communicating clearly and precisely to your audience.

**3 BE PREPARED**

- Define your terms.
- Use a simple, clear style in your writing.
- Sustain the same style throughout your essay.

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**Criterion H: Conclusion (Objectives 1, 4 and 5)**

"In the end I found that some of the conclusions I was aiming at were not what I had expected to find when I began working on my essay." (Laura)

This criterion assesses the extent to which the essay incorporates a conclusion that is relevant to the research question and is consistent with the evidence presented in the essay.

<table>
<thead>
<tr>
<th>Achievement level</th>
<th>Descriptor</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>Little or no attempt is made to provide a conclusion that is relevant to the research question.</td>
</tr>
<tr>
<td>1</td>
<td>A conclusion is attempted that is relevant to the research question but may not be entirely consistent with the evidence presented in the essay.</td>
</tr>
<tr>
<td>2</td>
<td>An effective conclusion is clearly stated; it is relevant to the research question and consistent with the evidence presented in the essay. It should include unresolved questions where appropriate to the subject concerned.</td>
</tr>
</tbody>
</table>

How can I be sure that my conclusions will be seen to be appropriate?

Your main conclusion should be directly related to the research question but make sure that you do not overstate your case, for example, by claiming that you have "proven" something.

The essay must include a clearly stated and relevant conclusion. It is best to highlight the conclusion for the reader by devoting a separate paragraph, headed section or chapter to this part of the essay. At this stage it is probably also a good idea to restate the research questions as this will help you to focus your writing. The goal of your writing should be to make it clear to the reader that the conclusions you are stating are supported by the evidence you have presented. If you mention unresolved questions then make sure that these are clearly related to the original research question. Questions that further refine or narrow the research question are often appropriate here while introducing completely new ideas in the conclusion should generally be avoided.
6. Conclusion

The data above concluded that the same cars of different firms are priced differently in countries. The main reason appears to be the type of demand and the level of competition between international and domestic firms.

Consumers in countries like Greece with no domestic car industry lack quality substitutes for cars and pay a much higher price for cars in the US or Germany. It appears that price discrimination and formal tariffs imposed on cars must be the same in all members of the European Union. However, Greece is a known offender and taxes imported vehicles regardless of their origin.

Furthermore, the industry operates as a non-collusive oligopoly which uses price discrimination and relies on branding as a way of pricing their cars. However, a detailed analysis of all factors and consumer income could produce more accurate results. A major difficulty that limits this analysis was the language in which different sites were in as well as the various laws and taxation which varies from country to country. Thus, in some cases we were unable to see what the standard features each vehicle possessed in different countries as well as any types of taxes imposed directly on the price of the vehicle.

This extract is taken from an essay that achieved 0/2 for criterion H.

6. How good is my essay?

There is a conclusion but it is very loosely worded and not consistent with the information in the essay. The problem here is that there was not an effective research question, the rest of the students essay suffers as a consequence. The student looked at 11 different cars across five countries, which was not really manageable and so the analysis and then the conclusion are necessarily vague.

The conclusion does not address the research question, there is no explanation as to how and why.

Avoid simply stating the obvious; this will not win you any marks if you simply fill your conclusion with non-essential text. Use your conclusion wisely to summarize the main points of the essay.

This extract is taken from an essay that achieved 1/2 for criterion H.

Psychology: Is memory reconstructive?

It is an ongoing debate among cognitive psychologists and the legal system if memory is reconstructive. Many disagree with the idea, and some have substantiated their challenges with valid arguments and in some cases even contradictory experiments, for example that presented by McCloskey and Zaragoza (1985) is challenge towards Loftus' emphasis on the inaccuracy of EWT based on her results from preceding experiments. Therefore, memory can be said to be reconstructive based on experimental evidence, however this is not an undeniable fact.

Although it is quite alarming that memory, in which we place so much faith and base our choices in life, can be altered. The cognitive level of analysis suggests that what we learn is influenced by what we already know, and based on the substantiation presented in this paper, what we already know can be influenced by what we learn. Quite a confusing phenomenon this is. Concluding that memory is reconstructive breaks the confidence we put in what should be a dependable source. If our cognition is unreliable, then what can we turn to for guidance? In my opinion, this is greatly exaggerated. Although it is an alarming thought, it does not mean that we have totally lost control of our identity; after all, we have been functioning in our respective societies for any centuries.

Use a heading for this section for clarification and cover the points relevant to the research question. In your opinion what is the answer to the question? What is this opinion based on?

English A1: How does the power struggle between good and evil enhance the plots in 'The Fellowship of the Ring' and 'The Return of the King' by Tolkien?

In conclusion, the Fellowship of the Ring and the Return of the King both imply a storyline filled with the protagonists against the antagonists to enhance their respective plots. More specifically, this was done by using the ring as a centerpiece to distinguish between the different groups, and set up the plot. This technique is used to draw more twists into the stories to make them more interesting. It also brings out more character traits to do more of the same. This was shown in both of the novels through their storylines and made for an epic tale.

This highlights how brief the conclusion is and illustrates that the student has failed to develop the argument.
This extract is taken from an essay that achieved 1/2 for criterion H.

Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D. melanogaster and further, to what extent do different concentrations affect behavior.

My results prove that one of my predictions was correct and that D. melanogaster are affected by the plant extracts and they have also shown a greater effect as the concentrations of the plant extracts increases. Although both plant extracts have affected the D. melanogaster I do not believe that the Marigold extract has as great an effect on the D. melanogaster as Nicotiana. I believe that this experiment has been a partial success, as I have successfully proved one of my hypotheses but I have only shown half of other hypothesis.

This extract is taken from an essay that achieved 2/2 for criterion H.

History: The Russian Revolution – who really made it happen and led Lenin to the power? The analysis of Parus' role in the October Revolution.

Conclusion

The Russian Revolution is always associated with Lenin. In his book 'Lenin's revolution' Marples says that October revolution very much belonged to Lenin, while this investigation argues against it. It was Parus who managed to operate on various fronts, inventing the detailed plan for the Russian Revolution, creating companies for money laundering and later transferring them to Bolsheviks, organising Lenin's transfer to Russia, in other words being a Merchant of Revolution. Without Parus neither German government nor Lenin would have achieved their aims. Therefore his role was crucial. And that is why I have concluded that Parus was a person who really made the October Revolution happen. However, Parus' name has now been forgotten and his grave has been lost, whereas in Russia the name of the person who he led to power is being glorified up to this day.

This extract is taken from an essay that achieved 2/2 for criterion H.

Physics: How do sharpness, substance, height and mass relate to the imprints of needles in semi-solids.

Sharpness/Diameter of the needle: (...) I found that the larger the diameter the less deep the needle went...

Weight: As in height there is a similar observation when the weight varies... Due to a higher downward force acting on the needle it will go deeper when its mass is higher. For needles of different weight falling from 25 cm a good linear relationship with depth and volume of impact is visible. (...) Subsance: I found that the characteristics of the substance play an important role. The substance can be classified on the basis of the volume of the imprint in these experiments. For different needle diameters this classification is nearly the same.

3E PREPARED

- Check your conclusion clearly addresses the research question.
- Ensure the conclusion is supported by the evidence.
- Ensure that any unresolved questions raised are clearly related to the original research question.

Criterion I: Formal presentation (Objective 5)

I did not worry too much about the organization or appearance of my essay until I began thinking about it from the reader's point of view. (p53)

This criterion assesses the extent to which the layout, organization, appearance and formal elements of the essay consistently follow a standard format. The formal elements are: title page, table of contents, page numbers, illustrative material, quotations, documentation (including references, citations and bibliographies) and appendices (if used).

<table>
<thead>
<tr>
<th>Achievement Level</th>
<th>Descriptor</th>
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<tr>
<td>0</td>
<td>The formal presentation is unacceptable, or the essay exceeds 4,000 words.</td>
</tr>
<tr>
<td>1</td>
<td>The formal presentation is poor.</td>
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</table>
2. The formal presentation is satisfactory.
3. The formal presentation is good.
4. The formal presentation is excellent.

Is it really worth my while putting a lot of effort into this part of the work?

Apart from directly addressing this criterion, a clearly structured and well-presented essay makes it easier for the examiner to find and reward the significant elements of your work.

This criterion examines how successful you have been in addressing the elements of form presentation. Technical or scientific essays tend to need a more obvious structure with chapter headings, illustrations, tables and graphs. The structure of a literary essay or exposition, based on literary works, tends to be of a less obvious, more “hidden” nature. Due to the nature of this criterion, extracts cannot give an accurate reflection, however, some elements of form presentation are common to all extended essays.

BE PREPARED
- The title page is clearly laid out.
- The table of contents includes page numbers and is accurate.
- Illustrations and quotations are used where necessary and support the text.
- The documentation style used is appropriate to the subject and is applied consistently.
- A concise decision is made about whether or not to include an appendix.

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Criterion J: Abstract (Objective 5)

“it wasn’t until i began trying to select journal articles for my essay that i realized the value of an abstract.” (Man)

The requirements for the abstract are for it to state clearly the research question that was investigated, how the investigation was undertaken and the conclusion(s) of the essay.

<table>
<thead>
<tr>
<th>Achievement level</th>
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<tbody>
<tr>
<td>0</td>
<td>The abstract exceeds 300 words or one or more of the required elements of an abstract (listed above) is missing.</td>
</tr>
<tr>
<td>1</td>
<td>The abstract contains the elements listed above but they are not all clearly stated.</td>
</tr>
<tr>
<td>2</td>
<td>The abstract clearly states all the elements listed above.</td>
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So how does the abstract fit in with the rest of the essay?

The abstract stands alone. Reading it should allow you to understand exactly what the essay is about, what methods were used and what conclusions were reached.

This is a very technical part of your essay where the requirements have to be met within a 300-word limit. Stating the research question and main conclusions generally should not present any problems. The difficulty arises with what else to say. The abstract must contain information about how you went about conducting the research, what methods you used and how you applied these. An abstract which is a “summary of the introduction” or a personal “justification” for why you chose the topic will not meet the assessment criterion.

6. How good is my essay?

This extract is taken from an essay that achieved 0/2 for criterion J.

History: The Great Depression in America: Consumerism and its Starling Consequences.

Abstract

In this essay, I focused on the 1920s. Consumerism during this period ultimately caused the stock market crash, and the resulting Great Depression through a ripple effect. The 1920s was a decade of excess and over-consumption, a time of new industries and innovations, and a revolution and rebirth after the events of World War I. As the country began to focus on its own development, shedding off the previous decade’s war, women were more in inventions, such as automobiles and moving pictures. This gave way to further industries. As a nation, we began to appreciate lives of consumption, of fantasy, and travel. This was spurred on by new findings by the industry of advertising, which learned how to target consumers into purchasing specific items. Women, found to be the primary consumers of the household, were influenced by the advertising of such new items as consumer appliances. Paying for all these new items was aided by the now accepted trend of installment credit. Installment buying was so widely used that debts accumulated rapidly, and sometimes everything one made was put towards debt. This decreased financial security. The economy was further encouraged by more open investment. Now it was possible for people of all genders, classes, and backgrounds to participate in investment in the stock exchange. Women became an increasingly large part of the market, and evolved to form their own identity in society. The stock market was further helped along on its journey towards seemingly endless triumph with low margin requirements, and people borrowing money to invest. Overall, the failing economy in the U.S. was reached through new highs in consumerism, which enhanced the robust economy but also caused it to become increasingly unstable. Eventually it was enough to cause the stock market to deteriorate completely.
**English B: How does advertising in UK women’s magazines construct and manipulate images of women by using visual and verbal means?**

**Abstract**

This essay is to examine the specific & concrete ways of the visual & verbal manipulation in images of women applied in advertising. The setting is a series of accusations, which cannot be comprehensive but are often relevant in advertisement.

An aspect which needs to be understood is that these accusations cannot be proven, not the effect, although certain suggestions can be made. Because advertising is such a broad category, I have focused intensively upon four chosen magazines. This allows a more detailed analysis, when the actual investigation consists of referring to the actual method and structure advertising uses to manipulate female viewers.

One needs to be alert to the complexity of the issues which can emerge through the stereotyping of females in advertising and the availability of arguments.

There are a vast amount of accusations made against advertisement for the image they create of the female and because I can only limit the amount of writing, I focus primarily upon the main ones.

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**Biology: Is there a significant difference between the effects of two plant extracts, Nicotiana and Marigold, on the behavior of D.melanogaster and further, to what extent do different concentrations affect behavior.**

**Research Question:**

The research question is stated implicitly in the form of the two hypotheses; however, this is not the best approach as the research question needs to be very clearly stated in the abstract.

The wording should not vary much from that used in other parts of the essay. It is clear (after reading the complete essay) that the question in the first line is not the research question! The paragraph on the scope of the essay is very unclear and gives no real information about what data were collected or what methods were used.

1. That *D. melanogaster* would be affected by extracts from the plants.
2. There would be a significant difference in the effect caused by differing concentrations of the plant extract.

I designed a repeatable method, based on research I carried out and a preliminary experiment I ran a two day experiment, that aimed to clearly and reliably test the hypothesis. The experiment was a success, there were no major disasters and I felt I had received some very good data.

I discovered that there seemed to be a trend that showed that, when the concentration of the plant extracts was low, the *D. melanogaster* seemed to be attracted to the plant extract and at higher concentrations the *D. melanogaster* were repelled by the plant extract. This seems to prove both of my hypotheses.

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**This extract is taken from an essay that achieved 0/2 for criterion J.**

**This extract is taken from an essay that achieved 1/2 for criterion J.**

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**6. How good is my essay?**

- There is an attempt to present the research question in the first sentence, but otherwise, this abstract does not address the other necessary elements required.
- The language is unclear and there is no discernible treatment of how the investigation was undertaken or approached.
- This is an area where a school’s library could be of particular help by making any number of resources available to students, helping them conducting their research.

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**A conclusion is stated. However, this conclusion is not appropriate as all three elements are present and none are dealt with well.**

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**Could farmers in the third world use plant extracts to control pests in their crops?**

Researching the internet and asking local gardeners I identified two plants, Marigold and Nicotiana that should affect the behaviour of the fruit fly (*Drosophila Melanogaster*). Two effects were hypothesised these were:

1. That *D. melanogaster* would be affected by extracts from the plants.
2. There would be a significant difference in the effect caused by differing concentrations of the plant extract.
Visual arts: An analysis of the classical external architectural features of the "Olyan Group" building by Ilias Barbarias, and their origins.

Abstract
The topic of this essay is the addition and contemporary interpretation of classical architectural elements in a postmodern context. This study is an analysis of the classical features of the Olyan Group building by Ilias Barbarias, and their origins. The research focuses on articles, miscellaneous internet sites, a book about classical architecture and a personal interview with an architect. The scope of this investigation is narrow, since it only analyzes only what were found to be the carved marble architectural features like the columns, modillions, pediments, which apparently have their origins not merely in classical times but also are replicated from original pieces of neoclassical buildings that have been included within the building's exterior. It must be noted that neoclassicism is a continuation of classicism. The method used to identify possible relationships between classical and as a result neoclassical architecture, is the in-depth analysis of each classical element on the building's exterior, compared to other classical or neoclassical examples. The conclusion of this study shows that, many of the interpretations of the apparent classical architectural features have been made, in order for the building to impress. Moreover, the elements used rarely work as functional mechanisms on the building's exterior but they serve mainly as decorative and ornamental components. As a result, a "stage-design" is created which gives the building an imposing tone and thus it stands as a landmark in the nearby area.

Word count: 233

English A1: Differing views on male eligibility in Jane Austen's Emma, Pride & Prejudice and Sense and Sensibility.

This essay examines the differing views on male eligibility in Jane Austen's Emma, Pride & Prejudice and Sense and Sensibility. In exploring this research topic, the views that are examined are those of Austen's characters, with special emphasis on the heroines; also central to this essay is an investigation into the author's views concerning eligibility, and how they relate to the beliefs of Austen's characters. In examining the differing views on what makes a man suitable for marriage, the similarities in opinions are also taken into account. In order to evaluate the views of the characters and the author on eligibility, I have sought to assess their beliefs concerning which personal, social and economic characteristics make a man eligible.

More specifically, this led me to examine five particular elements: physical features, wealth, social status, social etiquette and personal traits. After considering the varied viewpoints regarding the particular factors, this essay concludes that there is no single model for the ideal man of the late 18th and early 19th centuries. This is because the opinions on eligibility differ frequently – often these deviations in opinion are minor, yet in other instances these are fundamental disparities, another conclusion reached is that these variations in views are often differences in degree – as opposed to differences of kind – because certain male features are considered positive by all, yet views regarding the importance of the features differ. This essay draws attention to the conclusion that a common difference in belief concerns the importance of wealth and personal traits - to many, wealth is vital in rendering a man eligible. Conversely, the author's views are that a man's personality is the most significant factor – consequently, Austen counters the beliefs of society in her three novels, hence questioning the norms of society in which she lived.
This extract is taken from an essay that achieved 2/2 for criterion J.

Economics: The proposal to introduce a Goods and Services Tax in Hong Kong was shelved in 2006 due to inappropriate economic conditions. These conditions have now alleviated. This begs the question ‘Is now the time to introduce a Goods and Services Tax in Hong Kong?’

1. Abstract

The proposal to introduce a Goods and Services Tax in Hong Kong was shelved in 2006 due to inappropriate economic conditions. These conditions have now alleviated. Thus, the aim of this research is to investigate whether now (June 2008) is an appropriate time to reintroduce the GST proposal. The research question is as follows: ‘Is now the time to introduce a GST in Hong Kong?’

This is done by examining Hong Kong’s need for a GST, the city’s economic conditions of 2008 compared to 2006. [...] Interviews (appendix II) were also conducted with two accountants and an economist. During the research, much of the relevant information was found on online databases and the Internet. [...] It is believed that arguments in favour of GST strongly outweigh the arguments against. There is strong evidence suggesting that now is a much more appropriate time to introduce a GST than 2006.

Criterion K: Holistic judgment (Objective 1)

“My supervisor said that she could sense my excitement and was impressed with my dedication. I have been trying to put this across in my writing” (So-Bi)

Stem: The purpose of this criterion is to assess the qualities that distinguish an essay from the average, such as intellectual initiative, depth of understanding and insight. While these qualities will be clearly present in the best work, less successful essays may also show some evidence of them and should be rewarded under this criterion.

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<td>0</td>
<td>The essay shows no evidence of such qualities.</td>
</tr>
<tr>
<td>1</td>
<td>The essay shows little evidence of such qualities.</td>
</tr>
<tr>
<td>2</td>
<td>The essay shows some evidence of such qualities.</td>
</tr>
<tr>
<td>3</td>
<td>The essay shows clear evidence of such qualities.</td>
</tr>
<tr>
<td>4</td>
<td>The essay shows considerable evidence of such qualities.</td>
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Evidence of intellectual initiative can come across in your essay, for example, if you refer to unexpected ideas that came up during your research. You could then go on to explain how you incorporated these into your work. Depth of understanding on your part can come across in a number of ways. This can be achieved, for example, by explaining the key concepts in detail or by showing that you can see the connections between seemingly unrelated facts or events and by drawing these together in a coherent way. Showing insight is also not easy but can be achieved by using a novel approach to finding information or by gathering data with a technique that has not been tried before. These are only some of the qualities that the examiner may look for. Other qualities could include evidence of energy, enthusiasm, dedication and commitment in the face of difficulties.

BE PREPARED

- State the research question and conclusion in the abstract.
- Outline the way you went about answering the research question.
- All of this should be done within the word limit.

How can I show some of these qualities in my writing?

The overall impression created by the essay on the reader is what counts here. Try to allow your enthusiasm to come through in your writing and point out how you dealt with practical difficulties.

You should be able to:

- understand key areas where marks are awarded
- understand key areas where marks are lost or not awarded
- know what goes into making a successful essay.