Choose one of the following topics and write a 1500 to 2000 word essay on the topic. Your essay will have to answer all of the questions posed under each topic title. Your essay will also have to satisfy the following criteria:

1. Double spaced, whether hand written or word processed.
2. Paragraph form should be used; do not use point form, or just list out information; the information presented, should flow logically from start to end.
3. Neatness counts; marks will be deleted for writing that is hard to read. You may use the back side of the pages as long as the writing or print does not show through the page too much.

Your essay will also include the following:

<table>
<thead>
<tr>
<th>Marks</th>
<th>10</th>
<th>4. Title Page: a diagram, your name, due date, teacher's name, and the title.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Marks</td>
<td>5</td>
<td>5. Introductory paragraph; summarise your topic.</td>
</tr>
<tr>
<td>Marks</td>
<td>60</td>
<td>6. Essay body; make sure to comment on all topics listed under the topic title.</td>
</tr>
<tr>
<td>Marks</td>
<td>10</td>
<td>7. Bibliography: you will need to use at least five different resources. Only two can be encyclopaedias (whether hard copy or electronic), and one must be from a magazine or newspaper.</td>
</tr>
</tbody>
</table>
| Marks | 15 | 8. Rough draft: include all of your rough work for title page, essay, and working bibliography.

**Space:**
* relate space technologies to the concepts and principles of science
* describe new areas of scientific and technological activity that have been generated by space research and exploration
* outline the influence of historical, political, and economic factors on space technologies and science
* discriminate between science and science fiction in terms of space technologies
* identify key events in the development of space exploration
* describe the physical basis of space flight
* describe the costs and benefits of space exploration
* describe Canadian involvement in the space program
* comment on the sociological impact of the images of planet Earth that are returned from space
* identify possible future directions for the space program
Pollution:
* define pollution
* describe the types of pollutants that influence air, land, and water
* describe the effects and possible solutions to various sources of pollution
* discuss how 3-R (reduce, reuse, and recycle) waste management system work
* outline the detrimental effects of pollutants on society
* identify undesirable and unexpected byproducts and relate them to specific technologies
* describe the interactions of technology and society in the historical development of a specific waste management technology
* relate individual and community responsibilities to societal waste problems

Technology for the Home:
* identify the influence of technologies on family life and the home
* trace or outline the development of specific home appliances
* discuss the changes in lifestyle created by so-called labour-saving appliances in the home
* describe the interaction of science and technology in the development of a specific appliance or home technology
* identify the impact of the computer or microprocessor on the home and on home technologies and suggest possible future implications

Military and Defence Technology:
* identify and describe the sociological, political, and economic impacts of military and defence technologies
* relate the history of military conflict to the accelerated development of specific technologies
* analyse decisions involved in the development, implementation, or use of military and defence technologies
* describe the impact of technology on war strategy
* suggest reasons why military or defence spending supports a majority of the Earth's scientific research and technological development

Leisure and Recreational Technology:
* outline ways in which technology has reduced working time and increased leisure time for society
* identify and describe the effect of technology on the development of specific recreations (e.g., computerisation on the music industry, new materials incorporated into ski equipment)
* relate the development of leisure and recreational technology to developments in science and technology over time
* provide evidence that the use of recreational technologies involves personal and societal values