YEAR 11 Chemistry
ERT: Living in a world of materials

What do you have to do?
Research Hints
Using scholarly sources in Senior Science
Referencing and bibliographies
Here on Earth we are surrounded by millions of different materials. Throughout time people have been fascinated by the materials around them and have always made use of the materials of the Earth. In everything from clothes to computers, from medicines to machines, from food to fuels we use a vast range of materials that have been made by altering the raw materials of the Earth using chemical processes to suit our needs and requirements.

Chemical process – whether natural or conducted by industry, produce wastes which can pollute our environment. Chemists are very aware that what chemistry produces today will have an impact on future generations. Chemical scientists are exploring ways to reduce pollution by devising new chemical processes that eliminate or significantly reduce pollution in the first place.

Task
1. In this assignment you are to research a ‘green’ (environmentally friendly) material which has been developed and write a report.
2. The written report on the material is to be in the form outlined below and should be approximately 1500 words.
3. You will be assessed on your Materials Report, which must be submitted in hard copy. You will be assessed on the clarity and accuracy with which the details about the materials are presented.
4. The report must be fully referenced and all assistance acknowledged. All drafts must be submitted with the final copy.

**ASK:** DO I NEED TO USE IN-TEXT REFERENCING? [Online Ref Generator shows me how.]
**SECTIONS**

**Part 1**

Students will be given a list of 15 different materials which are used in society. Some are naturally occurring materials whilst others are synthetic ‘man-made’. This task requires students to research each material and determine whether or not the material should be classified as ‘green’ or ‘non-green’. Students must firstly determine whether or not the materials are: Recyclable; Non-toxic to the environment and Biodegradable.

**Part 2**

Students choose one ‘green’ material from Part A or one of their own. They then are required to explain the chemistry of their chosen ‘green’ material in particular its manufacture and function. Students must discuss its application benefits, production benefits and potential economic benefits to the consumer.

The student must explain in a straightforward way how this material is different from any similar material and why it should replace less environmentally friendly materials used for the same purpose.

**Part 3**

Students must discriminatingly select information to use and present scientific data and ideas to respond to the statement “Sustainable living requires the abolition of ‘non-green’ materials”.

**Part 4**

Students are required to analyse and evaluate the complex scientific inter-relationship between the use of ‘green’ materials and the health of the environment (environmental health).

**Bibliography:** All reports must include a bibliography outlining all referenced materials. Students should use a variety of sources for their referenced materials. Bibliography format can be found in your student diaries.

See Online Referencing Generator in Online Library

**ASK:** DO I NEED TO USE IN-TEXT REFERENCING? Online Ref Generator shows me how.
Research Hints 1

- Use your key words to search
- Build search strings using Boolean searching: “”; OR; ( )
- Don’t forget Google “Search Tools”
- Use “field searching” to narrow: inurl:edu; inurl:gov; inurl:2014 etc
Research Hints 2: Using Scholarly Sources

• Use the State Library Databases to get information from scholarly sources **NOT** accessible through Google
We provide access to a large number of authoritative e-resources: online journals, newspapers, magazines and websites, company information and Australian standards, legislation, music scores and recordings and encyclopedias. Much of this information in the e-resources is not available freely elsewhere on the web.

What are e-resources?
Confused about the terminology? Let us try to explain.

Access
All e-resources can be accessed at State Library and most are also accessible 24/7 away from State Library with either an SLQ library card or a Queensland Public Library (QPL) account. Visit our Membership page to register now.

There are some e-resources which are only available at State Library. Ask us for help in finding these e-resources.

Search databases
Find information in journals, newspapers and encyclopedias in a wide range of subjects. Many of the databases are available from home or sign up for library membership.

ebooks and digital publications
These include books from the Electronic Book Library, free ebooks from the Hathi Trust and Project Gutenberg, and digitised books and ‘virtual books’ from our collections.

ejournals
Over 70,000 journals that you can browse or search by title, subject or publisher. Includes Article Finder to help you link to the full text if you have a citation.

Archived websites
PANDORA is a national archive of Australian online publications and websites. State Library has been an active participant since 2002, enhancing the Queensland content of the archive.

ANZ Reference Centre – online magazines, newspapers, and books focussed on Australian and New Zealand content. Use in the library or at home if you have an SLQ library card or Queensland public library (QPL) account.

State Library of Queensland provides special library services for members who have an SLQ membership.
## Search databases

Use databases to locate articles, indexes, full-text ejournals, websites and guides available through the State Library of Queensland on a wide range of topics.

### Art and architecture
- Art and art sales
- Fashion, architecture and design
- Includes Art FullText, Oxford Art Online and the Vogue archive.

### Business and economics
- Company information and analysis, market and industry reports and articles from business journals, including Business Source Premier and Factiva.

### Family history
- Newspapers, historical records and biographical information, including Parish and Trove digitised Australian newspapers. Also available are Ancestry and FindMyPast (only at State Library).

### Health
- Both general and specialised medical information includes Health Collection and the Health and Wellness Resource Centre.

### History, geography and biography
- Eresources include 15th century British Library newspapers, JSTOR, Oxford Dictionary of National Biography and Humanities International.

### Humanities
- Both general and specialised resources in arts, education, philosophy, dance, literature and culture.

### Indigenous Australians
- Resources of interest to Aboriginal and Torres Strait Islander peoples or to researchers in this area.

### Language and literature
- Dictionaries, poetry, and major Australian literature resources.

### Law
- General and specialised law information including legal encyclopedias, case law, law reports, family and environmental law.

### Multi-subject
- Use these resources to search across different subjects. A great place to start for school assignments. Included are Encyclopedia Britannica, Gale Virtual Reference Library, JSTOR and Oxford Reference Online.

### Music

### Politics and government
- Australian and international resources including Australia/New Zealand Reference Centre, Australian Public Affairs Full Text and JSTOR.

### Reference
- Encyclopedias, general online reference sources, statistics and more. Includes Gale Virtual Reference Library and Oxford Reference Online.

### Science and technology
- Encyclopedias, standards and journal articles in all areas. Specialist databases include Standards Australia and Access Science.

### Social sciences
- General resources including Gale Virtual Reference Library and Humanities and Social Sciences Collection and specialist resources in education, health and consumer affairs.

### Sport and recreation
- General and specialist resources including AUSPORT, The Australian Tourism Index and the Australian/New Zealand Reference Centre.

### News
- News from Queensland and around the world both current and historical. Includes Trove digitised Australian newspapers and the UK Times Digital archive.

### All art and architecture resources
- Art Ari
ticles, Architecture

### All business & economics resources
- Accounting & taxation
- Business & management
- Company data

### All family history resources
- Ancestry
- FindMyPast

### All history, geography & biography resources
- British Library newspapers
- JSTOR
- Oxford Dictionary of National Biography
- Humanities International

### All humanities resources
- Arts, education, philosophy, dance, literature and culture

### All Indigenous Australians resources
- Aboriginal and Torres Strait Islander peoples

### All language & literature resources
- Australian Dictionaries
- Digital sources
- International Poetry & quotations

### All law resources
- Case law
- Journal articles
- Legislation
- Reference

### All multi-subject resources

### All politics and government resources

### All reference resources

### All sport and recreation resources
<table>
<thead>
<tr>
<th>Database Name</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>AESIS - Australia's National Geosciences, Minerals and Petroleum Reference Database</td>
<td>Covers Australian-generated published and unpublished documented materials over the past 125 years.</td>
</tr>
<tr>
<td>ANSTI - Australian Nuclear Science &amp; Technology Information</td>
<td>Contains bibliographical references to the Australian scientific and technical literature contributed to the International Atomic Energy ...</td>
</tr>
<tr>
<td>ATRI - Australian Transport Index</td>
<td>This bibliographic database indexes and abstracts published and unpublished Australian research in economics, transport ...</td>
</tr>
<tr>
<td>BUILD - Australian Building Construction &amp; Engineering</td>
<td>BUILD is a bibliographic database that indexes and abstracts published and unpublished articles in building and construction ...</td>
</tr>
<tr>
<td>CHERUB - Chemical Engineering Reference User Bibliography</td>
<td>Bibliographic database that indexes articles from journals on all chemical engineering topics.</td>
</tr>
</tbody>
</table>
One Search

Login to access ejournals, databases and eresources

Use either your:

1. SLQ library card barcode number:
   B

2. Last name:

3. Login Clear

Register for an SLQ library card
Lost your SLQ library card?

First time user?
- Haven't got an SLQ library card? Register now!
- Member of a Queensland public library? Upgrade your local library card and register for a QPL account to get instant access.

More Information...

1. QPL account user name:

2. Password:

3. Login Clear

First time user? Register for a QPL account
Forgot your username or password?
ProQuest Science Journals

This database is a definitive resource for students studying both the applied and general sciences. With coverage dating back to 1986, ProQuest Science Journals features over 1030 titles, with more than 760 available in full text. Search over 2.7M records, dating back to the mid-1980s.

- More information
- View title list

Subject coverage
- General science
- Materials science
- Aerospace
- Engineering
- Computers
- Physics
- Telecommunications
- Transportation
- Military

Want to Learn More?
- Try one of these options:
  - Search the online Help.
  - Learn about search syntax changes in the new ProQuest.
  - Discover answers to common questions at ProQuest’s Product Support Center.
  - Got an uncommon question? Contact our Customer Support Team.

Search tip
By default, we will look for documents with all the terms entered.
Use "quotation marks" to search for exact phrases.
Separate terms with OR to find any of the words entered.
plastic ("environmentally friendly" OR green)

Related searches
- Environmental protection
- Environmental protection AND Recycling
- Environmental protection AND Sustainable development
- Environmental protection AND Environmental impact

30712 Results *

1. 'Going Green' in Food Services: Can Health Care Adopt Environmentally Friendly Practices?
   Wilson, Elisa D, MSc, RD, CFE; Garcia, Alicia C, PhD, RD, CFE. Canadian Journal of Dietetic Practice and Research 72.1 (Spring 2011): 43-7.
   - green teams and implemented environmentally friendly initiatives
   - "Going green" in food services
   - stamped with Green Seal-approved

2. Engineers create denser, more environmentally friendly plastic foams
   - University have developed plastic foam that is denser
   - working toward a more environmentally friendly production process
   - is to create plastic foam that is strong enough to replace solid plastic in
The What and Why of Referencing and Bibliographies

Citation
- To use the words/ideas/pictures of an authority to support a point you are making in an assignment

In-text Referencing
- A brief system of identifying, within the text of your assignment, the source of words/ideas/pictures you’ve used
  - What parts of your assignment are original ideas?
  - What ideas have you borrowed from someone else...even if you’ve written the ideas in your own words?
  - Where have the direct quotes you've used come from?

The Bibliography
- At the end of your assignment
- The complete details of all the references you’ve used above
- In alphabetical order
The ‘How’ of In-Text Referencing

- When you use someone else’s words/ ideas/ pictures, the abbreviated source of your material appears in brackets
  - Smith (1992:45) has argued 'the relative seriousness of two kinds of errors differs from situation to situation.”
  - A recent study (Harvey 1996) shows that...
  - Johnson (1995a) discussed the subject...
  - It was contended that the psychological basis of these investigations happened over many years. (Williams 1997:pp.45-6)
  - Jones, Trumper and Baldwin (1996, p.35) acknowledge these ideas by stating:
The ‘How’ of Bibliographies

- In alphabetical order the complete details of all the references you’ve used to write your assignment
  
  
  
  
  
  - Day, Martha (MDAY@sage.uvm.edu). (1995, July 30). Review of film. E-mail to Xia Li (XLI@moose.uvm.edu)
  
  - Queensland Legal Services. “Your Rights in Domestic Violence Cases." qls@qut.edu.au (28 May 1996)

Notes
- All resources are together
- No numbering
Two areas of contemporary empirical research are relevant to this point. First, despite the frequent claims about a supposedly negative relationship between mental health and religious belief and practice (e.g., Albee, 1991; Ellis, 1980), and despite the frequent negative stereotypes of religious belief and practice that are so much a part of the mental health subculture—such as those in the Diagnostic and Statistical Manual of Mental Disorders (3rd ed., rev.; American Psychiatric Association, 1987; Richardson, 1993)—the best contemporary research suggests a neutral to mildly positive relationship between the two variables (Bergin, 1991; Larson et al., 1992; also see Richardson, 1985, 1992, for reviews of research related specifically to new or “cult” religions).

Furthermore, there is beginning evidence that religious clients actually do respond better to therapy that is adapted to their religious values and concerns (Propst, Ostrom, Watkins, Dean, & Mashburn, 1992). Also, Kelly and Strupp (1992) found that “salvation,” an explicitly religious value, was the only single client–therapist value that they studied on which therapists and clients significantly differed (due largely to the nonreligiosity of the

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<th>Audiovisual material</th>
<th>Audiovisual material - digital library</th>
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<td>Digital library</td>
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<td>Image of an artwork from internet without creator</td>
<td>Digital music - download</td>
<td>Off air or web recording - part of series/ongoing series</td>
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<tr>
<td>Image of artwork reproduced in a book with creator</td>
<td>Digital music - website</td>
<td>Off air or web recording - single program</td>
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<td>Music recording - CD</td>
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<td>Radio program</td>
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<td>Artwork in a collection</td>
<td>Television recording - part of series/ongoing series</td>
<td></td>
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<tr>
<td></td>
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<th>Book or encyclopedia - printed</th>
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<td>Book with one author</td>
<td>Dance</td>
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<td>eBook without author</td>
<td>Book with two or three authors</td>
<td>Music</td>
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<td>Book with more than three authors</td>
<td>Play</td>
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<td>Book without author</td>
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<tr>
<td>eBook from database with editor</td>
<td>Book without date</td>
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<tr>
<td>Encyclopedia - Electronic</td>
<td>Book 2nd or later edition</td>
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<td>Book with editor, reviser or compiler</td>
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<td>Newspaper article from website without author</td>
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<td>Journal or magazine article from website without author</td>
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<tr>
<th>Social media</th>
<th>Special publication or material</th>
<th>Website</th>
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<tr>
<td>Blog with author</td>
<td>Act of Parliament</td>
<td>Computer application</td>
</tr>
<tr>
<td>Blog with username</td>
<td>Advertisement</td>
<td>Discussion group or listserv</td>
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</table>

Referencing using the Harvard Author-Date System
Newspaper article from website with author

In-text reference examples

A campaign to tackle childhood obesity... (Hewett 2008).
OR
Hewett (2008) states that...

Reference list example


Fill in the following fields. Use the examples given as a guide.

<table>
<thead>
<tr>
<th>Field</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Family name</td>
<td>Hewett</td>
</tr>
<tr>
<td>First name or initial</td>
<td>R</td>
</tr>
<tr>
<td>Year of publication</td>
<td>2008</td>
</tr>
<tr>
<td>Title of article</td>
<td>Shock tactics urged on obesity</td>
</tr>
<tr>
<td>Date of issue</td>
<td>19 February</td>
</tr>
<tr>
<td>Title of newspaper</td>
<td>Australian</td>
</tr>
<tr>
<td>Date accessed</td>
<td>21 July 2013</td>
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</tbody>
</table>

Create citation
1. Use the left hand column to copy web addresses of sites you use. Do this as you use them.

2. Use the Online Referencing Generator to create full bibliographical details.

3. Delete the left hand column.

4. Use the “Sort” tool to put in alphabetical order.

5. Turn off borders> Borders and Shading> No Borders.
REFERENCING/BIBLIOGRAPHY


<table>
<thead>
<tr>
<th>Quick Notes</th>
<th>Full Entry for Bibliography</th>
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</thead>
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(See http://...
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