

**Citation at a glance: Book (APA)**

To cite a book in APA style, include the following elements:

- |                              |                              |
|------------------------------|------------------------------|
| <b>1</b> Author              | <b>4</b> City of publication |
| <b>2</b> Date of publication | <b>5</b> Publisher           |
| <b>3</b> Title and subtitle  |                              |

**1**

HARVEY A. LEVENSTEIN

REVOLUTION

# APA FORMATTING AND STYLE GUIDE

*by**University of Malaya Library (UML)*

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General Rules		
<b>Single Author</b>	Last name first, followed by author initials.	Berndt, T. J. (2002). Friendship quality and social development. <i>Current Directions in Psychological Science</i> , 11, 7-10.
<b>Two Authors</b>	List by their last names and initials. Use the ampersand (&) instead of "and."	Wegener, D. T., & Petty, R. E. (1994). Mood management across affective states: The hedonic contingency hypothesis. <i>Journal of Personality &amp; Social Psychology</i> , 66, 1034-1048.
<b>Three to Six Authors</b>	List by last names and initials; commas separate author names, while the last author name is preceded again by ampersand (&).	Kernis, M. H., Cornell, D. P., Sun, C. R., Berry, A., & Harlow, T. (1993). There's more to self-esteem than whether it is high or low: The importance of stability of self-esteem. <i>Journal of Personality and Social Psychology</i> , 65, 1190-1204.
<b>More Than Six Authors</b>	If there are more than six authors, list the first six as above and then "et al.," which stands for "and others." Remember not to place a period after "et" in "et al."	Harris, M., Karper, E., Stacks, G., Hoffman, D., DeNiro, R., Cruz, P., et al. (2001). Writing labs and the Hollywood connection. <i>Journal of Film and Writing</i> , 44(3), 213-245.
<b>Author - Malay Names</b>  <b>(without family names)</b>	Omit bin/binti	Asmah Binti Omar  Cite as  Asmah Omar. (1991). <i>Kemahiran berbahasa</i> . Kuala Lumpur: Penerbitan Pustaka Antara.
<b>Author - Chinese Names</b>	First name first, followed by author initials.	Chu Chin Ning  Cite as  Chu, C. N. (1995). Simulated counter-current adsorption processes; A comparison of modeling strategies. <i>Chemical Engineering Journal</i> , 56, 59-65.
<b>Author - Chinese Names with English Names</b>	Family names followed by the initials of the English name and the author initials	Vincent Foo Hiap Khian  Cite as  Foo, V. H. K. (1983). <i>Sarawak: Mini episodes of the past</i> . Petaling Jaya: Fajar Bakti.

<b>Author-Indian &amp; Sikh Names</b>  (without family names)	Omit d/o, s/o, a/l, a/p	Narrayani a/p Jeganathan.  Cite as  Narrayani Jeganathan. (2009).
<b>Inherited Names</b>	Cite as it is	Raja Ahmad Niza.  Cite as  Raja Ahmad Niza. (2009).
<b>Conferred titles</b>	Omit title	Tun Mahathir Mohamad  Cite as  Mahathir Mohamad
<b>Local Government Institution as Author</b>	Cite under state and followed by the name of department in Malay	Pahang, Jabatan Alam Sekitar. (2009).
<b>Foreign Government Institution as Author</b>	Cite under state or country and followed by the name of department in English	New Zealand, Department of External Affairs. (2009).
<b>Unique Corporate Body Names</b>	If the name starts with Foundation (Yayasan), Board (Lembaga), cite as it is given	Yayasan Sabah. (2009).
<b>Organization as Author</b>		American Psychological Association. (2003).
<b>Conference Names with Numbers</b>	Do not include the numbers	Fifth Asia-Pacific Physics Conference  Cite as  Asia-Pacific Physics Conference
<b>Unknown Author</b>		<i>Merriam-Webster's collegiate dictionary</i> (10th ed.).(1993). Springfield, MA: Merriam-Webster.

Reference List : Books		
<b>Basic Format for Books</b>	<p>Author, A. A. (Year of publication). <i>Title of work: Capital letter also for subtitle</i>. Location: Publisher.</p> <p><b>Note:</b> For "Location," you should always list the city, but you should also include the state if the city is unfamiliar or if the city could be confused with one in another state.</p>	<p>Calfee, R. C., &amp; Valencia, R. R. (1991). <i>APA guide to preparing manuscripts for journal publication</i>. Washington, DC: American Psychological Association.</p>
<b>Edited Book, No Author</b>		<p>Duncan, G.J., &amp; Brooks-Gunn, J. (Eds.). (1997). <i>Consequences of growing up poor</i>. New York: Russell Sage Foundation.</p>
<b>Edited Book with an Author or Authors</b>		<p>Plath, S. (2000). <i>The unabridged journals</i> (K.V. Kukil, Ed.). New York: Anchor.</p>
<b>A Translation</b>	<p><b>Note:</b> When you cite a republished work in your text, it should appear with both dates: Laplace (1814/1951).</p>	<p>Laplace, P. S. (1951). <i>A philosophical essay on probabilities</i>. (F. W. Truscott &amp; F. L. Emory, Trans.). New York: Dover. (Original work published 1814).</p>
<b>Edition Other Than the First</b>	.	<p>Helfer, M.E., Keme, R.S., &amp; Drugman, R.D. (1997). <i>The battered child</i> (5th ed.). Chicago: University of Chicago Press</p>
<b>Article or Chapter in an Edited Book</b>	<p>Author, A. A., &amp; Author, B. B. (Year of publication). Title of chapter. <b>In</b> A. Editor &amp; B. Editor (Eds.), <i>Title of book</i> (pages of chapter). Location: Publisher.</p> <p><b>Note:</b> When you list the pages of the chapter or essay in parentheses after the book title, use "pp." before the numbers: (pp. 1-21). This abbreviation, however, does not appear before the page numbers in periodical references, except for newspapers.</p>	<p>Rogoff, B., &amp; Mistry, J. (1985). Memory development in cultural context. In M. Pressley &amp; C. J. Brainerd (Eds.), <i>Cognitive learning and memory in children</i> (pp. 117-142). New York: Springer-Verlag.</p>
<b>Multivolume Work</b>		<p>Scruton, R. (1996). The eclipse of listening. <i>The New Criterion</i>, 15(30), 5-13.</p>

Reference List : Articles in Periodicals		
<b>Basic Form</b>	<p>The APA style dictates that authors are named last name followed by initials; publication year goes between parentheses, followed by a period. The title of the article is in sentence-case, meaning only the first word and proper nouns in the title are capitalized. The periodical title is run in title case, and is followed by the volume number which, with the title, is also italicized or underlined.</p> <p>Author, A. A., Author, B. B., &amp; Author, C. C. (Year). Title of article. <i>Title of Periodical</i>, volume number(issue number), pages.</p>	
<b>Article in Journal Paginated by Volume</b>	Journals that are paginated by volume begin with page one in issue one, and continue numbering in issue two where issue one ended.	Harlow, H. F. (1983). Fundamentals for preparing psychology journal articles. <i>Journal of Comparative and Physiological Psychology</i> , 55, 893-896.
<b>Article in Journal Paginated by Issue</b>	Journals paginated by issue begin with page one in every issue. Therefore, the issue number gets indicated in parentheses after the volume. The parentheses and issue number are not italicized or underlined.	Scruton, R. (1996). The eclipse of listening. <i>The New Criterion</i> , 15(30), 5-13.
<b>Article in a Magazine</b>		Henry, W. A., III. (1990, April 9). Making the grade in today's schools. <i>Time</i> , 135, 28-31.
<b>Article in a Newspaper</b>	Unlike other periodicals, p. or pp. precedes page numbers for a newspaper reference in APA style. Single pages take p., e.g., p. B2; multiple pages take pp., e.g., pp. B2, B4 or pp. C1, C3-C4.	Schultz, S. (2005, December 28). Calls made to strengthen state energy policies. <i>The Country Today</i> , pp. 1A, 2A.
<b>Letter to the Editor</b>		Moller, G. (2002, August). Ripples versus rumbles [Letter to the editor]. <i>Scientific American</i> , 287(2), 12.
<b>Review</b>		Baumeister, R. F. (1993). Exposing the self-knowledge myth [Review of the book <i>The self-knower: A hero under control</i> ]. <i>Contemporary Psychology</i> , 38, 466-467.

Reference List : Other Print Sources		
<b>An Entry in an Encyclopedia</b>		Bergmann, P. G. (1993). Relativity. In <i>The new encyclopedia britannica</i> (Vol. 26, pp. 501-508). Chicago: Encyclopedia Britannica.
<b>Work Discussed in a Secondary Source</b>	<p>List the source the work was discussed in:</p> <p>Coltheart, M., Curtis, B., Atkins, P., &amp; Haller, M. (1993). Models of reading aloud: Dual-route and parallel-distributed-processing approaches. <i>Psychological Review</i>, 100, 589-608.</p> <p><b>NOTE:</b> Give the secondary source in the references list. In the text, name the original work, and give a citation for the secondary source. For example, if Seidenberg and McClelland's work is cited in Coltheart et al. and you did not read the original work, list the Coltheart et al. reference in the References. In the text, use the following citation:</p>	In Seidenberg and McClelland's study (as cited in Coltheart, Curtis, Atkins, & Haller, 1993), ...
<b>Dissertation Abstract</b>		Yoshida, Y. (2001). Essays in urban transportation (Doctoral dissertation, Boston College, 2001). <i>Dissertation Abstracts International</i> , 62, 7741A.
<b>Government Document</b>		National Institute of Mental Health. (1990). <i>Clinical training in serious mental illness</i> (DHHS Publication No. ADM 90-1679). Washington, DC: U.S. Government Printing Office.
<b>Report from a Private Organization</b>		American Psychiatric Association. (2000). <i>Practice guidelines for the treatment of patients with eating disorders</i> (2nd ed.). Washington, D.C.: Author.
<b>Conference Proceedings</b>		Schnase, J.L., & Cunnius, E.L. (Eds.). (1995). Proceedings from CSCL '95: <i>The First International Conference on Computer Support for Collaborative Learning</i> . Mahwah, NJ: Erlbaum.



<b>Published Conference Paper</b>		<p>Hasmah Zanuddin,&amp; Azizah Hamzah. (2007). International trade agreement of intellectualproperty rights (TRIPS), copyright issues &amp; burden to enforce in Malaysia. In Choi K. Y. (Ed.), <i>Korean studies in Southeast Asia: Strategic cooperation and development in research and education: Proceedings of the 2<sup>nd</sup> International Conference of the Korean studies Association of Southeast Asia held on 29 January – 1 February 2007 at the University of Malaya, Kuala Lumpur</i> (pp. 121-138). KualaLumpur: University of Malaya.</p>
<b>Unpublished Conference Paper</b>		<p>Nadaraja Kannan. (2006, Nov). <i>The economic depression of the 1930s : Its impact on race relations in the Federated Malay State</i>. Paper presented at the International Association of Historians of Asia Conference, Manila, Philippines.</p>
<b>Academic Exercise / Thesis (Unpublished)</b>		<p>Santini, S. N. (2008). Research methods for business: A skill building approach. Unpublished master's thesis, University of Malaya, Kuala Lumpur.</p>

Reference List : Electronic Sources		
<b>Article From an Online Periodical / Databases</b>	<p>Online articles follow the same guidelines for printed articles. Include all information the online host makes available, including an issue number in parentheses.</p> <p>Author, A. A., &amp; Author, B. B. (Date of publication). Title of article. <i>Title of Online Periodical</i>, volume number(issue number if available). Retrieved day, month, year, from <a href="http://www.someaddress.com/full/url/">http://www.someaddress.com/full/url/</a></p>	<p>Bernstein, M. (2002). 10 tips on writing the living Web. <i>A List Apart: For People Who Make Websites</i>, 149. Retrieved 2 May 2006, from <a href="http://www.alistapart.com/articles/cite living">http://www.alistapart.com/articles/cite living</a></p>
<b>Online Scholarly Journal Article</b>	<p>Author, A. A., &amp; Author, B. B. (Date of publication). Title of article. <i>Title of Journal</i>, volume number. Retrieved month day, year, from <a href="http://www.someaddress.com/full/url/">http://www.someaddress.com/full/url/</a></p>	<p>Kenneth, I. A. (2000). A Buddhist response to the nature of human rights. <i>Journal of Buddhist Ethics</i>, 8. Retrieved 20 February 2001, from <a href="http://www.cac.psu.edu/jbe/twocont.html">http://www.cac.psu.edu/jbe/twocont.html</a></p>
<b>Online Scholarly Journal Article with Printed Version Available</b>	<p>If the article appears as a printed version as well, the URL is not required. Use "Electronic version" in brackets after the article's title.</p>	<p>Whitmeyer, J.M. (2000). Power through appointment [Electronic version]. <i>Social Science Research</i>, 29, 535-555.</p>
<b>Article From a Database</b>	<p>When referencing material obtained from an online database (such as a database in the library), provide appropriate print citation information (formatted just like a "normal" print citation would be for that type of work). Then add information that gives the date of retrieval and the proper name of the database. This will allow people to retrieve the print version if they do not have access to the database from which you retrieved the article.</p>	<p>Smyth, A. M., Parker, A. L., &amp; Pease, D. L. (2002). A study of enjoyment of peas. <i>Journal of Abnormal Eating</i>, 8(3). Retrieved 20 February 2003, from PsycARTICLES database.</p>

<b>Nonperiodical Web Document, Web Page, or Report</b>	<p>List as much of the following information as possible (you sometimes have to hunt around to find the information. If there is a page such as <a href="http://www.somesite.com/somepage.htm">http://www.somesite.com/somepage.htm</a>, and <a href="http://www.somesite.com/somepage.htm">somepage.htm</a> does not carry the information you are looking for, move up the URL to <a href="http://www.somesite.com/">http://www.somesite.com/</a>)</p> <p>Author, A. A., &amp; Author, B. B. (Date of publication). <i>Title of document</i>. Retrieved day, month, year, from <a href="http://Web address">http://Web address</a>.</p> <p><i>Title of document</i> (Date of publication). Retrieved day, month, year, from <a href="http://Web address">http://Web address</a></p> <p><b>NOTE:</b> When an Internet document is more than one Web page, provide a URL that links to the home page or entry page for the document. If the date is unavailable for the document use (n.d.) for no date.</p>	
<b>Chapter or Section of a Web Document</b>	<p>Author, A. A., &amp; Author, B. B. (Date of publication). Title of article. In Title of book or larger document (chapter or section number). Retrieved day, month, year, from <a href="http://www.someaddress.com/full/url/">http://www.someaddress.com/full/url/</a>.</p> <p><b>NOTE:</b> Use a chapter or section identifier and provide a URL that links directly to the chapter section, not the home page of the Web site.</p>	<p>Engelshcall, R. S. (1997). Module mod_rewrite : URL Rewriting Engine. In <i>Apache HTTP Server Version 1.3 Documentation</i> (Apache modules.) Retrieved March 10, 2006, from <a href="http://httpd.apache.org/docs/1.3/mod/mod_rewrite.html">http://httpd.apache.org/docs/1.3/mod/mod_rewrite.html</a></p>
<b>Online Forum or Discussion Board Posting</b>	<p>For a message posted to an online newsgroup, forum, or discussion group, include the title of the message, and the URL of the newsgroup or discussion board.</p> <p><b>NOTE:</b> If only the screen name is available for the author, then use the screen name. However, if the author provides a real name, use their real name instead. Be sure to provide the exact date of the posting. Follow the date with the subject line, the thread of the message (not in italics). Provide any identifiers in brackets after the title, as in other types of references.</p>	<p>Frook, B. D. (1999, July 23). New inventions in the cyberworld of toylandia [Msg 25]. Message posted to <a href="http://groups.earthlink.com/forum/messages/00025.html">http://groups.earthlink.com/forum/messages/00025.html</a></p>
<b>Computer Software</b>		<p>Ludwig, T. (2002). PsychInquiry [computer software]. New York: Worth.</p>

Reference List : Other Non-Print Sources		
<b>Interview, Email, and Other Personal Communications</b>	No personal communication is included in your reference list; instead, parenthetically cite the communicators name and the date of the communication in your main text only.	(E. Robbins, personal communication, January 4, 2001).  A. P. Smith also claimed that many of her students had difficulties with APA style (personal communication, November 3, 2002).
<b>Motion Picture</b>	<p>Basic reference list format:</p> <p>Producer, P. P. (Producer), &amp; Director, D.D. (Director). (Date of publication). <i>Title of motion picture</i> [Motion picture]. Country of origin: Studio or distributor.</p> <p><b>Note:</b> If a movie or video tape is unavailable in wide distribution, add the following to your citation after the country of origin: (Available from Distributor name, full address and zip code).</p>	
<b>A Motion Picture or Video Tape with International or National availability</b>		Smith, J.D. (Producer), & Smithee, A.F. (Director). (2001). <i>Really big disaster movie</i> [ Motion picture]. United States: Paramount Pictures
<b>A Motion Picture or Video Tape with Limited Availability</b>		Harris, M. (Producer), & Turley, M. J. (Director). (2002). <i>Writing labs: A history</i> [Motion picture]. (Available from Purdue University Pictures, 500 Oval Drive, West Lafayette, IN 47907)
<b>Television Broadcast or Series Episode</b>	<p>Producer, P. P. (Producer). (Date of broadcast or copyright). Title of broadcast [ <i>Television broadcast or Television series</i> ]. City of origin: Studio or distributor.</p>	
<b>Single Episode of a Television Series</b>	<p>Writer, W. W. (Writer), &amp; Director, D.D. (Director). (Date of publication). Title of episode [Television series episode]. In P. Producer (Producer), <i>Series title</i>. City of origin: Studio or distributor.</p>	<p>Wendy, S. W. (Writer), &amp; Martian, I.R. (Director). (1986). The rising angel and the falling ape [Television series episode]. In D. Dude (Producer), <i>Creatures and monsters</i>. Los Angeles: Belarus Studios.</p>
<b>Television Broadcast</b>		Important, I. M. (Producer). (1990, November 1). <i>The nightly news hour</i> [Television broadcast]. New York: Central Broadcasting Service.

<b>A Television Series</b>		Bellisario, D.L. (Producer). (1992). <i>Exciting action show</i> [Television series]. Hollywood: American Broadcasting Company.
<b>Music Recording</b>	Songwriter, W. W. (Date of copyright). Title of song [Recorded by artist if different from song writer]. On <i>Title of album</i> [Medium of recording]. Location: Label. (Recording date if different from copyright date).	Taupin, B. (1975). Someone saved my life tonight [Recorded by Elton John]. On <i>Captain fantastic and the brown dirt cowboy</i> [CD]. London: Big Pig Music Limited.

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## **Appendix**

### **Suggested Reading Materials**

Allison, B. (2004). *The student's guide to preparing dissertations and theses* (2<sup>nd</sup> ed.). London; Routledge Falmer.

Amato, C. J. (1998). *The world's easiest guide to using the APA: A user-friendly manual for formatting research papers according to the American Psychological Association style guide* (2<sup>nd</sup> ed.). Westminister, CA: Stargazer Pub.

Azirah Hashim. (2005). *How to write a thesis: The thesis writing journey from start to finish*. Kuala Lumpur: University of Malaya Press.

Biagioli, M. (2003). *Scientific authorship: Credit and intellectual property in science* (2<sup>nd</sup> ed.). New: Routledge.

Creame, P. (2008). *Writing at university: A guide for students*. Buckingham: Open University Press.

Gibaldi, J. (2003). *MLA handbook for writers of research papers* (6th ed.). New York: Modern Language Association of America.

Holloway, B. R. (2008). *Technical writing basics: A guide to style and form* (4<sup>th</sup> ed.). Upper Saddle River: Pearson/Prentice Hall.

Holtom, D. (1999). *Enjoy writing your science thesis or dissertation: A step-by-step guide to planning and writing dissertations and theses for undergraduate and graduate science students*. London: Imperial College Press.

Huckin, T. N. (1991). *Technical writing and professional communication: For nonnative speakers of English*. New York: McGraw-Hill.

Jariah Mohd Jan. (2003). *Guide to the preparation of research reports: Dissertations and theses*. Kuala Lumpur: IPS.

Kirkman, A. J. (2006). *Punctuation matters: Advice on punctuation for scientific and technical writing* (4<sup>th</sup> ed.). New York: Routledge/Taylor & Francis.

Li, X., & Crane, N. B. (1996). *Electronic styles: A handbook for citing electronic information*. Medford, N.J: Information Today.

Lindsay, D. (1993). *Panduan penulisan saintifik: Manual untuk pelajar dan penyelidik*. Kuala Lumpur: Dewan Bahasa dan Pustaka.

- Lunenberg, F. C. (2008). *Writing a successful theses or dissertation: Tips and strategies for students in the social and behavioral sciences*. Thousand Oaks: Corwin Press.
- Locke, L. F. (2007). *Proposals that work: A guide for planning dissertations and grant proposal* (5<sup>th</sup> ed.). Thousand Oaks: Sage Pub.
- Matthews, J. R. (2000). *Successful scientific writing: A step-by-step guide for the biological and medical sciences* (2<sup>nd</sup> ed.). Cambridge: Cambridge University Press.
- Mohd. Yusof Hj. Othman. (1996). *Panduan penyelidikan sains dan penulisan saintifik*. Kuala Lumpur: Dewan Bahasa dan Pustaka.
- O'Connor, M. (1991). *Writing successfully in science*. London: E & FN Spon.
- Rubens, P. (2001). *Science and technical writing: A manual of style* (2<sup>nd</sup> ed.). New York: Routledge.
- Rugg, G. (2004). *The unwritten rules of PhD research*. Maidenhead, England: Open University Press.
- Russey, W. E. (2006). *How to write a successful science thesis: The concise guide for students*. Wiley-VCH Verlag GmbH & Co.
- Trimmer, J. (1998). *The essentials of MLA style: A guide to documentation for writers of research papers, with an Appendix on APA style*. Boston, Mass.: Houghton Mifflin.
- Turabian, K. L. (2007). *A manual for writers of research papers, theses, and dissertations: Chicago style for students and researchers* (7<sup>th</sup> ed.). Chicago: The University of Chicago Press.
- Turk, C. (1989). *Effective writing: Improving scientific, technical and business communication* (2<sup>nd</sup> ed.). London: E. & F.N. Spon.
- Winkler, A. C. (1999). *Writing the research paper: A handbook with both the MLA and APA documentation styles* (5<sup>th</sup> ed.). Forth Worth, TX: Harcourt Brace College Publishers.
- Yang, J. T. (1995). *An outline of scientific writing: For researchers with English as a foreign language*. Singapore: World Scientific.

## MISCELLANEOUS INFORMATION

### 5.1 Bibliography

The use of the American Psychological Association (APA) parenthetical citation system is highly recommended by the University. Please refer to the 'APA Formatting and Style Guide' prepared by the UM library available at <http://umlib.um.edu.my/contents.asp?tid=32&vs=en>.

Candidates are also encouraged to refer to previous research reports, dissertations or theses and additional information related to the preparation and presentation of research available at the UM library.

Candidates are recommended to use the EndNote software for easy preparation of citation in the text and the bibliographical listing. The UM main library provides training for postgraduate candidates to familiarize themselves with the EndNote application.

### 5.2 Units of Measurement

The International System of Units (SI) must be used for all scientific and laboratory data. If other units of measurement are used, they need to be converted to SI units and placed in parenthesis.

### 5.3 Research Ethics

Research Ethics involves all the moral and professional issues relating to research. The most serious breach of ethical standards in writing research report/dissertation/thesis is the offence of plagiarism: the expropriation of the intellectual property of another. Plagiarism is defined as the use of original work, ideas or actual texts created by others, without acknowledging the original source. Such acknowledgement should be made by:

- (i) including the source in the bibliography; and/or
- (ii) including the citation by acknowledging the source in the text.

For example:

*'Civic education turned away from concentrating on the founding to concentrating on openness based on history and social science' (Bloom, 1987).*



If the quoted citation contains more than four sentences, it should be placed within a paragraph of its own with a 1 cm indentation. For example:

*The general theory of relativity, on its own, cannot explain these features or answer these questions because of its prediction that the universe started off with infinite density at the big bang singularity. At the singularity, general relativity and all other physical laws break down: one couldn't predict what will come out of the singularity (Hawking, 1988).*

If only part of the quotation is cited, the citation should be marked with an ellipsis (...), for example:

*'There must be give and take, with the teacher being a participant as well as leader and ... a source of answers' (Sizer, 1984).*

If the author interprets the writings of others, the interpretation should be placed in a square parenthesis, for example:

*'The principle [sanctity of contracts] is closely associated with that of freedom of contract...' (Peden, 1982).*

If a primary source cannot be found, the candidate is allowed to quote the secondary source in the text. Both sources need to be acknowledged, for example:

*Skinner (1968), quoted by Conant (1972), was...*

The final research report/dissertation/thesis submitted must be produced by the candidate.