

# 不同教室情境之教師發問對英語閱讀理解影響之研究

許毓倫、曹秀蓉

E-mail: 9511317@mail.dyu.edu.tw

## 摘要

本文旨在探討不同教室情境之教師發問對於英語閱讀理解之影響。根據前人研究，高認知層次的問題不僅能夠提昇及培養學生的思考，對於閱讀理解亦有相當的助益。此外，線上情境在語言學習方面的功效也已獲證實，相較於傳統教學情境，其優勢不容置疑。本研究的實驗對象為大葉大學英美語文學系二年級的學生，在資料分析方面，主要是針對英文閱讀理解測驗以及所有問卷做量的比較。本研究結果顯示(1)高認知層次問題確實能有效提昇學生英文閱讀理解，(2)線上情境有助於培養學生高認知層次思考及英文閱讀理解能力，(3)多數參與本實驗的學生對於線上討論階抱持肯定的態度。根據以上結果，此研究對於英閱讀教學有以下建議:(1)教師可多加善用高認知層次問題來提高學生的思考層次以促進閱讀理解，(2)教師可藉由電腦科技的輔助營造建構式的學習環境以提升學生的思考層次及英語學習，(3)教師的發問策略需依教學內容而有所調整。

關鍵詞：教師發問、教室情境、線上學習、英語閱讀理解

## 目錄

封面內頁 簽名頁 授權書.....	iii 中文摘要.....	.iv
ABSTRACT.....	v ACKNOWLEDGEMENT .....	vi TABLE OF
CONTENTS .....	vii LIST OF FIGURES.....	x LIST OF
TABLES.....	.xi Chapter I.INTRODUCTION.....	1 1.1 Background of
the Study.....	3 1.2 Purpose of the Study.....	3 1.3 Organization of the
Study.....	4 1.4 Research Questions.....	4 1.5 Significance of the
Study.....	5 1.6 Limitations of the Study.....	5 1.7 Definition of
Terms.....	6 1.8 Summary.....	7 Chapter II.LITERATURE REVIEW 2.1
Introduction.....	8 2.2 Theories and Strategies of Reading Comprehension.....	8 2.3 Teacher
Questioning.....	10 2.3.1 Functions and Types of Questioning.....	11 2.3.2 Questioning and
Language Learning.....	16 2.3.3 Questioning and Constructivism.....	17 2.3.4 Questioning and Reading
Comprehension.....	19 2.4 Web-based Language Learning.....	21 2.4.1 CMC and Language
Learning.....	22 2.4.2 CMC and Constructivism.....	24 2.5
Summary.....	25 Chapter III.METHODOLOGY 3.1	
Introduction.....	26 3.2 Design of the Study.....	26 3.2.1 Independent
Variable.....	28 3.2.2 Dependent Variable.....	28 3.3
Participants.....	29 3.4 Sampling.....	29 3.5
Materials.....	30 3.5.1 Reading Article.....	31 3.5.2
MSN.....	31 3.5.3 Comprehension Test.....	32 3.5.4
Questionnaire.....	33 3.6 Procedure.....	34 3.6.1 Control Group (with No
Questioning).....	35 3.6.2 Experimental Group.....	35 3.6.2.1 Convergent Questioning
Group.....	35 3.6.2.2 Divergent Questioning Gruop .....	36 3.7 Pilot
Study.....	36 3.7.1 Students' Performance on the Convergent Part.....	37 3.7.2 Students'
Performance on the Divergent Part.....	38 3.8 Data Analysis Methods.....	39 3.9
Summary.....	40 Chapter IV.RESULTS AND DISCUSSION 4.1	
Introduction.....	41 4.2 Students' Performance in Traditional Class Setting.....	42 4.2.1
Convergent Part.....	43 4.2.2 Divergent Part.....	46 4.3 Two-way ANOVA of
Students' Performance.....	48 4.3.1 Convergent Part.....	48 4.3.2 Divergent
Part.....	52 4.4 Analysis of Students' Attitudes.....	57 4.4.1 Students' Attitude towards
Traditional In-class Discussion.....	58 4.4.2 Students' Attitude towards Web-based In-class Discussion.....	60 4.4.3 Comparison between
Traditional and Web-based In-class Discussion.....	62 Chapter V. CONCLUSION 5.1	
Introduction.....	64 5.2 Summary of Findings.....	64 5.3 Pedagogical

Implications.....	67	5.4 Suggestions for Future Research.....	68	CHINESE
REFERENCES.....	70	ENGLISH REFERENCES.....	71	Appendix
A.....	79	Appendix B.....	81	Appendix
C.....	82	Appendix D.....	83	Appendix
E.....	86			

## 參考文獻

CHINESE REFERENCE 1.Shih,Ting-Ching(施頂清) , 2000。自我發問策略與合作學習(小組討論)對國中生國文閱讀理解的效果比較考驗。碩士論文。國立中山大學。 2.Chang,Yu-Chen(張玉成) , 1983。教師發問技巧及其對學生創造思考能力影響之研究(一)。教育資料文摘。12(6): 37-70。 3.Chang,Chun-Shen(張俊紳) , 1992。教師發問技巧在教學上的功能及應用。國教之聲。25(3):28-32。 4.Lien,Chi-Shun(連啟舜) , 2002。國內閱讀理解教學研究成效之統合分析研究。碩士論文。國立台灣師範大學。 5.Liu,Ya-Chu(劉雅筑) , 2000。國中學生批判思考、創造思考、閱讀理解策略與閱讀理解成就之相關研究 , 碩士論文 , 國立高雄師範大學。 6.Cheng,Chang-Ming(鄭長明) , 2002。發問對教學歷程之影響初探。國立台北師範學院學報。15:87-114。 ENGLISH REFERENCE 1.Aebersold,J.A. & Field,M.L.(1997).From reader to reading teacher:issues and strategies for second language classrooms.N.Y.:CUP. 2.Alderson,J.C.(2000).Assesing reading.Cambridge:CUP. 3.Al-Seghayer,K.(2001).The effect of multimedia annotation modes on L2 vocabulary acquisition:a comparative study,Language Learning & Technology.5(1):202-232. 4.Anderson,N.(1999).Exploring second laguage reading:issues and strategies.Canada:Heinle & Heinle Publishers. 5.Applegate,M.D.,Applegate A.J. & Quinn,K.B.(2002.) Levels of thinking required by comprehension questions in informal reading inventories,The Reading Teacher.56(2):174-180. 6.Aschner,M.J.(1961).Asking questioning to trigger thinking,NEA Journal.50:44-46. 7.Askov,E.N.,Johnston,J.,Petty,L.I. & Young,S.J.(2003).Expanding access to adult literacy with online distance education.ERIC Database:ED474704. 8.Beauvois,M.H.& Eledge,J.(1996).Personality types and megabytes:student attitudes toward computer mediated communication(CMC) in the lagauge classroom,CALICO.13(2&3):27-45. 9.Blair,T.R.,Heilman,A.W.& Ruipley,W.H.(2002).Principles and practices of teaching reading.N.Y.:Merrill Prentice Hall. 10.Blanchette,J.(2001).Questions in the online learning environment,Journal of Distance Education.Retrieved March15,2005 from <http://cade.athabasca.ca/vo116.2/blanchette.html> 11.Bloom,B.S.(Ed).(1956).Taxonomy of dduEducational objectives handbook1:cognitive doomain.N.Y.:Longman,Green&Co. 12.Brock,C.A.(1986).The effects of referential questions on ESL classroom discourse,TESOL Quarterly.20:47-59. 13.Cahill,D. & Catanzaro,D.(1997).Teaching first-year Spanish on-line,CALICO.14(2-4):97-114. 14.Carner,R.L.(1963).Levels of questioning.Education.83:546-550. 15.Chafe A.(1999).Computer mediated communication in the second language classroom.Retrieved March 10,2005 from [http://www.cdli.ca/~achafe/commedlang\\_.html.htm](http://www.cdli.ca/~achafe/commedlang_.html.htm) 16.Chia,Hui-lung(2001).Reading activites for effective top-down processing, English Teaching Forum.22-25. 17.Chun,D.M.(2001).L2 Reading on the Web:Strategies for Accesssing Information in Hypermedia,Computer Assisted Language Learning.14(5):367-403. 18.Chun,D.M. & Plass,J.L.(1997).Research on text comprehension in multimedia environments,Language Learning & Technology.1(1):60-81. 19.Crowder;R.G. & Wagner,R.K.(1992).The psychology of reading:An Introduction(2nd Edition).N.Y.:OUP. 20.Davis,E.J.(2003).Questioning during guided reading as an aid to comprehension.In Grace M.(Ed),The State of Reading.7(2):17-27. 21.Driscoll,M.P.(1994).Psychology of learning for instruction.Needham, Ma:Allyn ^ Bacon. 22.Dunlap,J.C.& Grabinger,R.S.(1996).Rich environment for active learning in the higher education classroom.In Wilson,B.G.(Ed) Constructivist learning environments:case studies in instructional design.65-82.N.J.:EducationalTechnology Publications. 23.Ediger;M.(2003).Philosophy of teaching reading,Reading Improvement.40(3):126-131. 24.Ellis,K.(1993).Teacher questioning behavior and student learning:what research says to teachers.Database:ERIC ED 359572. 25.Erlendsson,J.(2001).Constructivist learning environments.Retrieved April 4,2005 from [http://www.hi.is/~joner/eaps/wh\\_conlo.htm](http://www.hi.is/~joner/eaps/wh_conlo.htm) 26.Feuerstein,T. & Schcolnik,M.(2000).Enhancing reading comprehension in the language leaerning classroom.S.F.:Alta Book Center. 27.Gauthier,L.R.(2000).The role of questioning:beyond comprehension's front door.Reading Horizons.40(4):239-252. 28.Ghani,R.A.& Daud,N.M.(2003).Computer-mediated communicatioin;its pedagogical aspects and considerations,IATEEL.3(2).Retrieved March 30,2005 from [http://www.iatefl.org/pl/call/j\\_article13.htm#cmc](http://www.iatefl.org/pl/call/j_article13.htm#cmc) 29.Gillespie,C.(1990).Questions about student-generated questions,Journal of Reading.34(4):250-516. 30.Godfrey,K.A.(2001).Teacher questioning technique,student responses and critical thinking.Database:ERIC ED 459609. 31.Gonzalez-Bueno,M.(1998).The effects of electronic mail on Spanish L2 discourse,Language Learning & Technology.1(2):55-70.Retrieved January 13,2005 from <http://lilt.msu.edu/vollnum2/article3/default.html>. 32.Grabe,W.& Stoller,F.L.(2002).Teaching and researching reading.London:Longman. 33.Grabe,W.(2004).Research on teaching reading,Annual Review of Applied Linguistics.24:44-69. 34.Graesser,A.C.& Person,N.K.(1994).Question asking during tutoring,American educational research journal.31(1):104-137. 35.Green,A.& Youngs,B.E.(2000).Using the web in elementary French and German courses:quantitative and qualitative study results,CALICO Journal.19(1):89-123. 36.Hadley,A.O.(2001).Teaching language in context.CanadaLHeinle & Heinle. 37.Hamzah,M.(2004).Facilitating second language acquisition (SLA) in a computer-mediated communication(CMC) learning environment,Internet Journal of e-language Learning & Teaching.1(1):15-30. 38.Hausfather,S.J.(1996) Vygotsky and schooling:creating a social contest for learning.Action in Teacher Education.18:1-10. 39.Herrell,A.& Jordan,M.(2002).50 active learning strategies for improving reading comprehension.Upper Saddle River:Prentice-Hall. 40.Hoven,D.(1999).A model for listening and viewing comprehension in multimedia environments,Language Learning & Technology.3(1):88-103. 41.Hsu, Lee-ching.(2002).Using creative questions to facilitate L2 acquisition.M.A.

Thesis,National Cheng-Chi University. 42.Huitt,W.(2003).The information processing approach to cognition,Educational Psychology Interactive.Valdosta,GA:Valdosta State University.Retrieved February 22,2004 from <http://chiron.valdosta.edu/whuitt/col/cogsys/inforproc.html>. 43.Hung,Shu-mei.(2001).The Effects of Constructive Reading Courseware on EFL Reading Instruction for Junior High School Students.M.A.Thesis,NKNU. 44.Hussain,N.(2003).Helping EFL/ESL students by asking quality questions,The Internet TESL Journal.4(10).Retrieved February 22,2004 from <http://iteslj.org/Techniques/Hussain-Questions.html>

45.Johnson,A.P.(1998).What exactly are comprehension skills and how do I teach them Reading.22-26. 46.Kern,R.& Warschauer,M.(2000).Theory and practice of network-based language teaching.In Warschauer,M.& Kern,R.(Eds.),Network-based language teaching:concepts and practice .N.Y.:Cambridge University Press.Retrieved December 5,2004 from: <http://www.gse.uci.edu/markw/nblt-intro.html> 47.King,A.(1994).Guiding knowledge construction in the classroom:effect of teaching children how to question and how to explain,American Educational Research Journal.31(2):338-368. 48.Knabe,A.P.(2004).Constructivist learning perspectives in online public relations classrooms,Prism 2.Retrieved December 15,2004 from <http://knowledgebase/theorists/constructivism/vygotsky.htm> 49.Koren,S.(1999).Vocabulary instruction through hypertext:are there advantages over conventional methods of teaching? Teaching English as a Second or Foreign Language.4(1):1-18.Retrieved December 15,2004 from <http://writing.berkeley.edu/TESL-EJ/ej13/a2.html> 50.Krashen,S.(1982).Principles and Practice in Second Language Acquisition.N.Y.:Pergamon Press. 51.Lewis,K.G.(1999).Developing questioning skills,Teachers and Students.Retrieved December 15,2004 from <http://www.utexas.edu/academic/cte/sourcebook/questioning>. 52.Lin,Cheng-lung.(2002).Constructivism and second language learning: a web-based reading-writing activity. M.A. Thesis, NTNU. 53.Long, M.H. & Sato, C.J.(1983).Classroom foreigner talk discourse: forms and function of teacher's questions. In Seliger H.W., & Long M.H.(Eds.), Classroom-oriented research in second language acquisition(268-285). Rowley, MA: Newbury House. 54.Lynch, T.(1991). Questioning Roles in the classroom, ELT Journal. 45(3):201-210. 55.Malamah-Thomas,A.(1996). Classroom interaction. Oxford: OUP. 56.Mason,L.H.(2004).Explicit self-regulated strategy development versus reciprocal questioning: effects on expository reading comprehension among struggling readers, Journal of Educational Psychology. 96(2):283-296. 57.Menke,D.J.& Pressley M.(1994).Elaborative interrogation: using "why" questions to enhance the learning form text, Journal of Reading. 38(8):642-645. 58.Morrison, S.(2002).Interactive language learning on the web. ERIC Database: ED 472851. 59.National Institute of Child Health and Human Development.(2000).Teaching children to read: an evidence-based assessment of the scientific research literature on reading and its implications for reading instruction: Reports of the subgroups (NIH Publication No.00-4754),Report of the National Reading Panel. Washington, DC: U.S. Government Printing Office. 60.Nunan,D.(1987) Communicative language teaching: making it work, ELT Journal.41(2):136-145.

61.Nunan,D.(1999).Second language teaching & learning. Canada: Heinle & Heinle Publishers. 62.Nuttall,C.(1996.) Teaching reading skills in a foreign language. Oxford: Heinemann. 63.Painter,J.(1996). Questioning techniques for gifted students. Retrieved November 8, 2004 from <http://www.nexus.edu.au/teachstud/gat/painter.htm> 64.Riddle E. M.& Dabbagh N.(1999). Psychology of learning for instruction. Retrieved November 20,2004 from <http://chd.ges.gmu.edu/immersion/knowledgebase/theorists/constructivism/vygotsky.htm> 65.Ryder,Randall J.(1991). The directed questioning activity for subject matter text,Journal of Reading.34(8):606-612. 66.Salataci, R. & Akyel, A. (2002).Possible effects of strategy instruction on L1 and L2 reading, Reading in a Foreign Language. 14(1).Retrieved October 30, 2004 from <http://nflrc.hawaii.edu/rfl/April2002/salataci/aslataci.html> 67.Salataci,R. & Akyel,A.(2002). Possible effects of strategy instruction on L1 and L2 reading, Reading in a Foreign Language.14(1).Retrieved May 3, 2004 from <http://nflrc.hawaii.edu/rfl/April2002/Salataci/salataci.html> 68.Sengupta,S.(2001).Exchanging ideas with peers in network-based classrooms:an aid or a pain? Language Learning & Technology.5(1):103-134. 69.Shomoossi,N.(2004). The effect of teacher's questioning behavior on EFL classroom interaction: a classroom research study,The Reading Matrix.4(2):96-104.Retrieved May 3,2004 from <http://www.readingmatrix.com/articles/shomoossi/article.pdf> 70.Singer,H.& Donlan, D. (1982). Active comprehension: problem-solving schema with question generation for comprehencion of complex shot stories, Active comprehension.17(2):166-186. 71.Spivey, N.N.(1989). Constructing constructivism, Occasional Paper.12.Retrieved May 23, 2004 from <http://www.writingproject.org/downloads/csw/OP12.pdf> 72.Su,W.Q. & Kinshuk (2002).Web-based computer assisted language learning,Proceedings of the Distance Education Association of New Zealand Conference.Wellington:DEANZ,99-107. Retrieved September 26,2004 from [http://infosys.massey.ac.nz/~kinshuk/papers/deanz2002\\_call.pdf](http://infosys.massey.ac.nz/~kinshuk/papers/deanz2002_call.pdf) 73.Sun,Yu-chih.(2002). Extensive reading online: an overview and evaluation. 387-400, The Proceedings of the Nineteenth International Conference on English Teaching and Learning. Taipei:Crane. 74.Thomas, E.Nolan.(1991)Self-questioning and prediction: combining metacognitive strategies, Journal of Reading.35(2): 132-138. 75.Vygotsky,L.S(1978).Mind in society: the development of higher psychological processes. Cole, M.,John-Steiner,V.,Scribner,S.& Souberman,E.(Eds. and Trans.). Cambridge, MA:Harvard University Press. 76.Warschauer,M. & Healey, D.(1998). Computers and language learning: an overview, Language Teaching.31:57-71. 77.Warschauer,M.(1996).Comparing face-to-face and electronic discussion in the second language classroom, CALICO Journal.13(2/3):7-26. 78.Warschauer,M.(2001).Online communication. In R.Carter & D.Nunan(Eds.). The Cambridge guide to teaching English to speakers of other languages. 207-212. Cambridge: Cambridge University Press. 79.Weasenforth,D.,Biesenbach-Lucas,S. & Meloni,C.(2002).Realizing constructivist objectives through collaborative technologies: threaded discussion,Language Learning & Technology.6(3):58-86.Retrieved September 28,2004 from <http://Ilt.msu.edu/vo16num3/weasenforth/> 80.Wilen,W.W.(1991).Queationing skills, for teachers. What research says to the teacher(3rd Ed.) Database: ERIC ED 332983. 81.Wilen,W.W.(1994).The theory and reality of instructional conversations for ESL classrooms. The English Teacher.13 Retrieved August 30.2004 from <http://www.melta.org.my/ET/1994/main3.html> 82.Wilson,B.G.(1996).Introduction:what is a

constructivist learning environment? In Wilson, B.G.(Ed) Constructivist learning environments: case studies in instructional design. 3-8. N.J.: Educational Technology Publications. 83.Yi?iter,K.,Sar??帙ban, A. & G?直ses, T. (2005). Reading strategies employed by ELT learners at the advanced level, The Reading Matrix.5(1):124-139. Retrieved August 15, 2004 from <http://www.readingmatrix.com/articles/saricoban/article2.pdf> 84.Yoshii,M.& Flaitz,J.(2002). Second language incidental vocabulary retention: the effect of text and picture annotation types, CALICO Journal.20(1):33-58. 85.Zubair,A.& Khoo,H.E.(2003). Basics in medical education. 141-151.N.J.:World Scientific Pub. Co.