

## **“Why Good Students Fail” – Links and References**

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<http://www.chem.utoronto.ca/~dstone/Research/ROP299.html>

### **Predicting success in post-secondary chemistry**

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3. Maude B. Scofield, “Further studies on sectioning in general chemistry.” *J. Chem. Ed.*, **1930**, 7(1), 116-126.
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6. Paul E. Clark, “The effect of high-school chemistry on achievement in beginning college chemistry.” *J. Chem. Ed.*, **1938**, 15(6), 285-289.
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14. Arlene A. Russell, “A rationally designed general chemistry diagnostic test.” *J. Chem. Ed.*, **1994**, 71(4), 314-317.
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16. R. H. Tai, R. B. Ward, and P. M. Sadler, “High school chemistry content background of introductory college chemistry students and its association with college chemistry grades.” *J. Chem. Ed.*, **2006**, 83(11), 1703-1711.
17. R. H. Tai and P. M. Sadler, “High School Chemistry Instructional Practices and their Association with College Chemistry Grades.” *J. Chem. Ed.*, **2007**, 84(6), 1040-1046.
18. C. A. R. Berg, “Factors related to observed attitude change toward learning chemistry among university students.” *Chem. Ed. Res. Pract.*, **2005**, 6, 1-18.

### **Ontario Education Documents and Programs**

Grades 9-12 Science Curriculum – topics and expectations by grade and subject:

<http://www.edu.gov.on.ca/eng/curriculum/secondary/science.html>

Program Planning & Assessment – describes the “70/30 Rule”:

<http://www.edu.gov.on.ca/eng/curriculum/secondary/progplan.html>

Provincial Report Card Guide – Appendix C describes study skills:

<http://www.edu.gov.on.ca/eng/document/forms/report/sec/srepgde.html>

(Note: paper versions of the above from ServiceOntario, College Park, 777 Bay St.)

Advanced Placement (Canada): <http://www.ap.ca/>

International Baccalaureate Program: <http://www.ibo.org/>

## Learning Styles, Processes, and Approaches

1. Noel Entwistle, Maureen Hanley, and Dai Hounsell, "Identifying distinctive approaches to studying." *Higher Ed.*, **1979**, 8, 365-380.
2. Noel J. Entwistle and Paul Ramsden, *Understanding Student Learning*, Croom Helm (London/Canberra) and Nichols Publishing Company (New York), 1983.
3. David Watkins, "Assessing tertiary study processes." *Human Learn.*, **1983**, 2, 29-37.
4. Patrick R. Thomas and John D. Bain, "Contextual dependence of learning approaches: the effects of assessments." *Human Learn.*, **1984**, 3, 227-240.
5. P. Ramsden, D. G. Beswick and J. A. Bowden, "Effects of learning skills interventions on first year university students' learning." *Human Learn.*, **1986**, 5, 151-164.
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7. David Kember, Sandra Ng, Harrison Tse, Eric T. T. Wong, and Mike Pomfret, "An examination of the interrelationships between workload, study time, learning approaches and academic outcomes." *Studies Higher Ed.*, **1996**, 21(3), 347-358.
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9. Keith Trigwell, Michael Prosser and Fiona Waterhouse, "Relations between teachers' approaches to teaching and students' approaches to learning." *Higher Ed.*, **1999**, 37, 57-70.
10. Carolin Kreber, "The relationship between students' course perception and their approaches to studying in undergraduate science courses: A Canadian experience." *Higher Ed. Res. Dev.*, **2003**, 22(1), 57-75.
11. Noel Entwistle and Velda McCune, "The conceptual bases of study strategy inventories." *Ed. Psych. Rev.*, **2004**, 16(4), 325-345.

## Additional Web Resources:

1. The Toledo & California Diagnostics:  
[http://www4.uwm.edu/chemexams/materials/details\\_exam.cfm?ID=150](http://www4.uwm.edu/chemexams/materials/details_exam.cfm?ID=150)  
[http://www4.uwm.edu/chemexams/materials/details\\_exam.cfm?ID=148](http://www4.uwm.edu/chemexams/materials/details_exam.cfm?ID=148)
2. The VARK guide to learning styles, <http://www.vark-learn.com/english/index.asp>
3. The Teaching Perspectives Inventory (TPI), <http://teachingperspectives.com/>
4. The Approaches and Study Skills Inventory for Students (ASSIST) questionnaire.  
<http://www.etl.tla.ed.ac.uk/questionnaires/ASSIST.pdf>
5. The Kolb learning styles inventory, <http://www.learningfromexperience.com/>
6. The York/Seneca Institute for Mathematics, Science, and Technology Education (YSIMSTE),  
<http://www.ysimste.ca/>

## Additional Useful Reference Materials:

1. "Educational Portrait of Canada, 2006 Census." Statistics Canada publication Catalogue no. 97-560-X
2. Marc Frenette and Klarka Zeman, "Why Are Most University Students Women? Evidence Based on Academic Performance, Study Habits and Parental Influences." Statistics Canada publication Catalogue no. 11F0019MIE - No. 303
3. "Youth in Transition Survey", project overview, Statistics Canada publication Catalogue no. 81-588-X
4. Lorin W. Anderson and David R. Krathwohl (Eds.), *A Taxonomy for Learning, Teaching, and Assessing: A Revision of Bloom's Taxonomy of Educational Objectives*, Addison Wesley Longman, 2001.
5. M. David Miller, Robert L. Linn and Norman E. Gronlund, *Measurement and Assessment in Teaching*, 10<sup>th</sup> ed., Merrill/Pearson Education Inc., 2009.
6. Linda B. Nilson, *Teaching at its Best*, 2<sup>nd</sup> ed., Anker Publishing/Jossey-Bass, 2003.