

## Technology Implementation Questionnaire: Version II

This questionnaire is part of a project being conducted by the Centre for the Study of Learning and Performance (CSLP) at Concordia University in Montreal, Quebec in collaboration with the Eastern Townships School Board and the Sir Wilfred Laurier School Board. One of the goals of the CSLP is to study classroom processes through an active association with teachers, students and administrators. In that regard, we have developed a questionnaire to learn more about the reasons why teachers do or do not integrate computer technology in their classrooms. To gain an accurate understanding of these reasons, it is critical that we hear from both teachers who are using and those who are not using computer technology. Knowledge we gain from your responses will help in providing services to teachers where needed and requested.

By completing this questionnaire, you are consenting to participate in our study. You may choose to participate or not and are free to discontinue participation at any time. All information you provide will be kept strictly confidential and under no circumstances will your individual responses be released to the school or the school board administration. Overall results from your school will be compiled and presented to your school board.

You are requested by your school board to participate in this survey; your professional experiences and opinions are crucial to helping us understand teaching from the educator's point of view and, in particular, how resources should be organized to best help you accomplish your objectives. We would greatly appreciate your taking the time to complete our questionnaire.

**If you have any questions about the study, please feel free to call Jennifer Sclater at (514) 848-2424 ext 5923 or email her at [jennifer.sclater@education.concordia.ca](mailto:jennifer.sclater@education.concordia.ca).** If you have any questions about your child's or your **rights as a research participant**, please contact Adela Reid at (514) 848-2424 ext. 7481 or at [adela.reid@concordia.ca](mailto:adela.reid@concordia.ca).

Thank you for your participation.

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## **INSTRUCTIONS**

This questionnaire has five sections and consists of four printed pages. Please mark **ALL** your answers on the accompanying **Answer Sheet**. Fill in the circle that corresponds to the most appropriate response when answering the closed-ended questions. Please record your comments to the open-ended questions on a separate sheet of paper. After you have completed your responses, please return both the questionnaire and the answer sheet to your facilitator.

## **SECTION I- Your Professional Views on Computer Technology**

**Using the scale provided, please rate the extent to which you agree or disagree with the following statements regarding the use of computer technology in the classroom:**

<b>Strongly Disagree A</b>	<b>Moderately Disagree B</b>	<b>Slightly Disagree C</b>	<b>Slightly Agree D</b>	<b>Moderately Agree E</b>	<b>Strongly Agree F</b>
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### **The use of computer technology in the classroom...**

1. Increases academic achievement (e.g. grades).
2. Results in students neglecting important traditional learning resources (e.g., library books).
3. Is effective because I believe I can implement it successfully.
4. Promotes student collaboration.
5. Makes classroom management more difficult.
6. Promotes the development of communication skills (e.g., writing and presentation skills).
7. Is a valuable instructional tool.
8. Is too costly in terms of resources, time and effort.
9. Is successful only if teachers have access to a computer at home.
10. Makes teachers feel more competent as educators.
11. Is successful only if there is adequate teacher training in the uses of technology for learning.
12. Gives teachers the opportunity to be learning facilitators instead of information providers.
13. Is successful only if technical staff regularly maintains computers.
14. Demands that too much time be spent on technical problems.
15. Is successful only if there is the support of parents.
16. Is an effective tool for students of all abilities.
17. Is unnecessary because students will learn computer skills on their own, outside of school.
18. Enhances my professional development.
19. Eases the pressure on me as a teacher.
20. Is effective if teachers participate in the selection of computer technologies to be integrated.
21. Helps accommodate students' personal learning styles.
22. Motivates students to get more involved in learning activities.
23. Could reduce the number of teachers employed in the future.
24. Limits my choices of instructional materials.
25. Requires software-skills training that is too time consuming.
26. Promotes the development of students' interpersonal skills (e.g., ability to relate or work with others).

- 27. Will increase the amount of stress and anxiety students experience.
- 28. Is effective only when extensive computer resources are available.
- 29. Is difficult because some students know more about computers than many teachers do.
- 30. Is only successful if computer technology is part of the students' home environment.
- 31. Requires extra time to plan learning activities.
- 32. Improves student learning of critical concepts and ideas.
- 33. Becomes more important to me if the student does not have access to a computer at home.

**SECTION II - Your Background, Your Teaching Style and Resources Available to You**

34. Gender:    A. Female      B. Male

35. Years of teaching completed
- A. 0. This is my first year teaching
  - B. 1-5 years
  - C. 6-10 years
  - D. 11-15 years
  - E. 16-20 years
  - F. 21-25 years
  - G. 26-30 years
  - H. 31-35 years
  - I. Over 35 years

36. Current teaching position (If you teach in more than one subject area, choose the **one** that dominates your teaching schedule.)

Elementary:

- A. Pre-K or Kindergarten
- B. Cycle 1, grades 1 and 2
- C. Cycle 2, grades 3 and 4
- D. Cycle 3, grades 5 and 6
- E. Other (e.g., Music, Phys. Ed., Science, Resource)

Secondary:

- F. Mathematics, Science, or Computer technology
- G. Language arts, Second language, MRE, Social Science
- H. Special Education or Resource
- I. Other (e.g., Creative arts, Phys. Ed., Vocational)

37. Preferred teaching methodology (**choose only one**)

- A. Largely teacher-directed (e.g., teacher-led discussion, lecture)
- B. More teacher-directed than student-centred
- C. Even balance between teacher-directed and student-centred activities
- D. More student-centred than teacher-directed
- E. Largely student-centred (e.g., cooperative learning, discovery learning)

38. Average class size that you teach

- A. Less than 10 students
- B. 10-15 students
- C. 16-20 students
- D. 21-25 students

- E. 26-30 students
- F. More than 30 students

39. What is the primary language that you teach in?
- A. English
  - B. French
  - C. Other

**For questions 40 and 41, use the following scale to rate your responses**

Extremely Poor A	Poor B	Acceptable C	Good D	Very Good E	Excellent F
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40. How would you rate student access to computer technology at your school?
41. How would you rate teacher access to computer resource personnel in your school?

**SECTION III –Your Experience with Computer Technologies**

42. Please indicate how often you integrate computer technologies in your teaching activities.

- A. Not at all
- B. Rarely
- C. Occasionally
- D. Frequently
- E. Almost Always
- F. All the Time

43. On average, how many hours per week do you spend using a computer for personal use outside of teaching activities?

- A. None
- B. Less than 2 hours
- C. 2 hour or more, but less than 4 hours
- D. 4 hours or more, but less than 6 hours
- E. 6 hours or more, but less than 8 hours
- F. 8 hours or more, but less than 10 hours
- G. 10 hours or more

44. Please read the following descriptions of the proficiency levels a user has in relation to computer technologies. Determine the level that best describes you and circle the corresponding letter on your answer sheet.

- A. **Unfamiliar** - I have no experience with computer technologies.
- B. **Newcomer** - I have attempted to use computer technologies, but I still require help on a regular basis.
- C. **Beginner** - I am able to perform basic functions in a limited number of computer applications.
- D. **Average** - I demonstrate a general competency in a number of computer applications.
- E. **Advanced** - I have acquired the ability to competently use a broad spectrum of computer technologies
- F. **Expert** - I am extremely proficient in using a wide variety of computer technologies.

**SECTION IV - Your Process of Integration**

**For Items 45 to 72: Please indicate how frequently you use computer technologies for each of the activities listed below. Indicate the appropriate response on your answer sheet.**

Never A	Practically Never B	Once in a While C	Fairly Often D	Very Often E	Almost Always F
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**Instructional**

- 45. Use WebQuests in your lessons.
- 46. Use tutorials for self-training.
- 47. Have students use tutorials for remediation (in class).

**Communicative**

- 48. Use e-mail to communicate with other teachers.
- 49. Use e-mail to communicate with students.
- 50. Use e-mail to communicate with parents.
- 51. Use LCD projector (a projector connected to a computer) in class.
- 52. Create PowerPoint presentations to use in class.

**Organizational**

- 53. Keep track of student grades or marks.
- 54. Prepare handouts, tests/quizzes, and homework assignments for students.
- 55. Create lesson plans.

**Analytical/Programming**

- 56. Create charts or graphs.
- 57. Create a class/school website or put student work on-line.
- 58. Analyze data.
- 59. Statistics or data analysis.

### Recreational

- 60. Have students play games (in class).
- 61. Use computer time as a reward for completing class work or good behaviour.

### Expansive

- 62. Have students conduct experiments or laboratory exercises (in class/school lab).
- 63. Have students use 3-D modelling software or simulations (in class/school lab).

### Creative

- 64. Use drawing or paint programs.
- 65. Scan pictures or images.
- 66. Use digital video, digital cameras.

### Expressive

- 67. Use a word processor.
- 68. Maintain an on-line journal (diary) or discussion board.

### Evaluative

- 69. Test or assess student learning.
- 70. Use digital portfolios.

### Informative

- 71. Search the Internet for information for a lesson.
- 72. Access CD-ROM reference material.

73. Total amount of in-service training you have received to date on using computer technology in the classroom:

- A. None
- B. A full day or less
- C. More than a full day and less than a one-semester course
- D. A one-semester course
- E. More than a one-semester course

74. Please read the descriptions of each of the six stages related to the process of integrating computer technology in teaching activities. Choose the stage that best describes where you are in the process and circle the corresponding letter on your answer sheet.

**A. Awareness**

I am aware that technology exists, but have not used it – perhaps I’m even avoiding it. I am anxious about the prospect of using computers.

**B. Learning**

I am currently trying to learn the basics. I am sometimes frustrated using computers and I lack confidence when using them.

**C. Understanding**

I am beginning to understand the process of using technology and can think of specific tasks in which it might be useful.

**D. Familiarity**

I am gaining a sense of self -confidence in using the computer for specific tasks. I am starting to feel comfortable using the computer.

**E. Adaptation**

I think about the computer as an instructional tool to help me and I am no longer concerned about it as technology. I can use many different computer applications.

**F. Creative Application**

I can apply what I know about technology in the classroom. I am able to use it as an instructional aid and have integrated computers into the curriculum.

**SECTION V – Additional Comments (Please answer on a separate sheet. We would appreciate if you would include your name on the separate answer sheet so we can combine all your comments together. Remember that under no circumstances will school officials be able to identify your individual responses.)**

- A. Suppose your school administration annually made additional resources available (example: release time for improving computer-based instruction. In your opinion, what kinds of resources should they provide? How would you like to see these resources used in order to improve your instructional use of computers?
- B. Please describe the ideal use, if any, of computer technology in the classroom.

**Thank you very much for your participation in our study.**